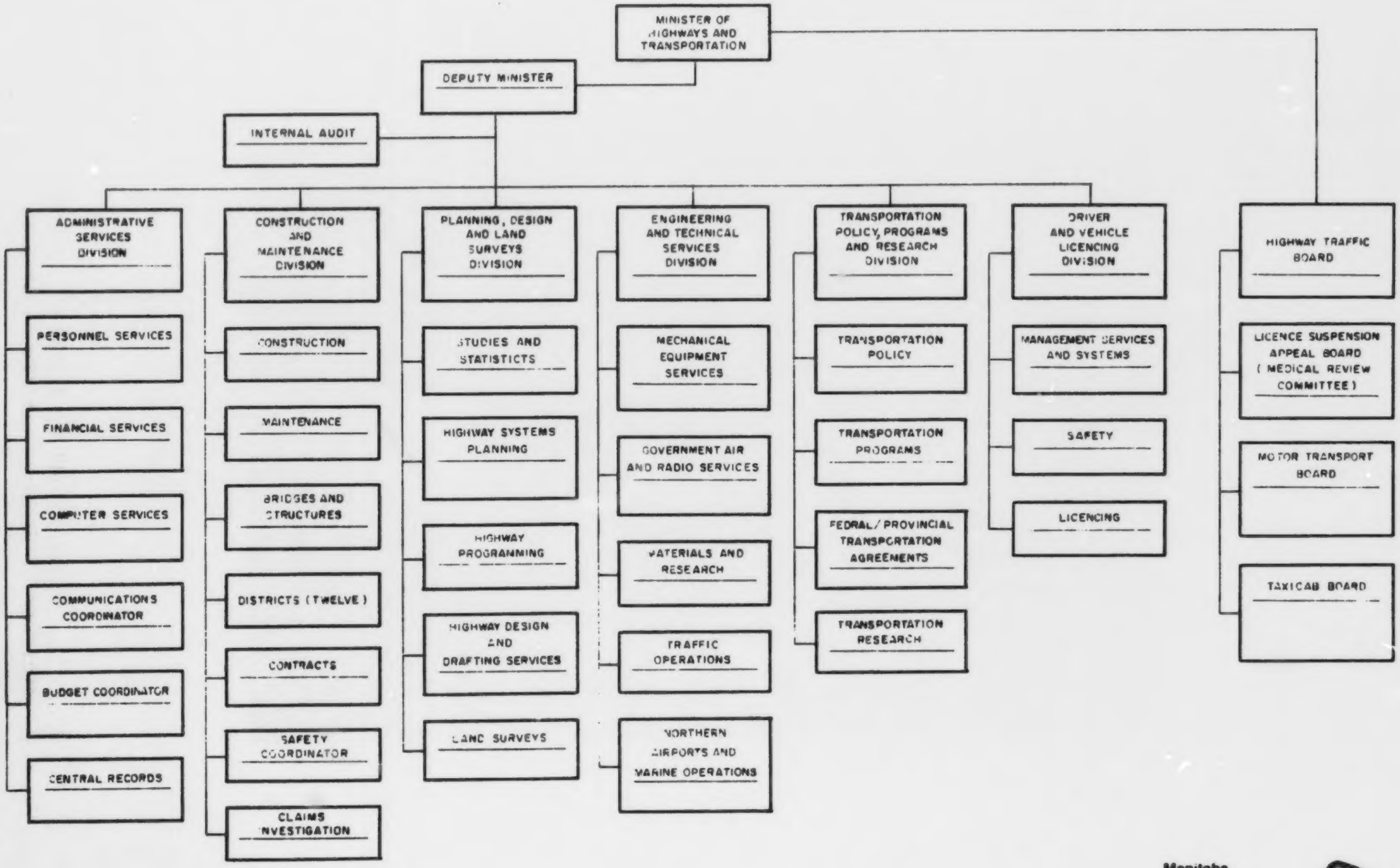
Manitoba

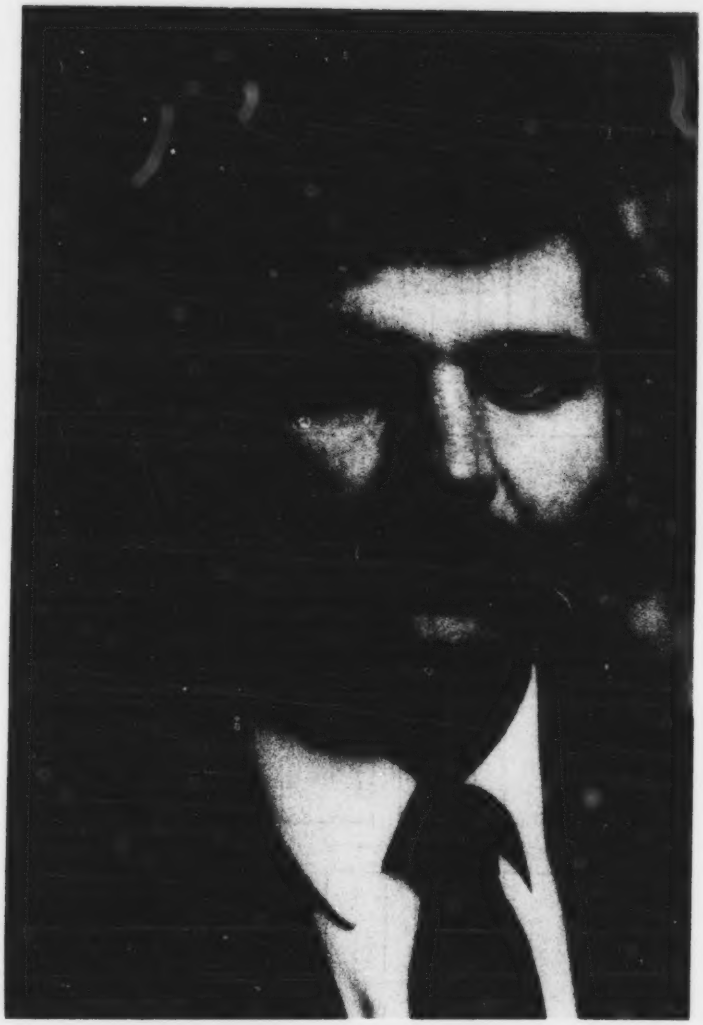
Annual Report
1984 - 85

Highways and Transportation


MINISTER OF HIGHWAYS AND TRANSPORTATION
DEPUTY MINISTER
INTERNAL AUDIT
ADMINISTRATIVE SERVICES DIVISION
PERSONNEL SERVICES
FINANCIAL SERVICES
COMPUTER SERVICES
COMMUNICATIONS COORDINATOR
BUDGET COORDINATOR
CENTRAL RECORDS
CONSTRUCTION AND MAINTENANCE DIVISION
CONSTRUCTION
MAINTENANCE
BRIDGES AND STRUCTURES
DISTRICTS (TWELVE)
CONTRACTS
SAFETY COORDINATOR
CLAIMS INVESTIGATION
PLANNING, DESIGN AND LAND SURVEYS DIVISION
STUDIES AND STATISTICTS
HIGHWAY SYSTEMS PLANNING
HIGHWAY PROGRAMMING
HIGHWAY DESIGN AND DRAFTING SERVICES
LAND SURVEYS
ENGINEERING AND TECHNICAL SERVICES DIVISION
MECHANICAL EQUIPMENT SERVICES
GOVERNMENT AIR AND RADIO SERVICES
MATERIALS AND RESEARCH
TRAFFIC OPERATIONS
NORTHERN AIRPORTS AND MARINE OPERATIONS
TRANSPORTATION POLICY, PROGRAMS AND RESEARCH DIVISION
TRANSPORTATION POLICY
TRANSPORTATION PROGRAMS
FEDRAL / PROVINCIAL TRANSPORTATION AGREEMENTS
TRANSPORTATION RESEARCH
DRIVER AND VEHICLE LICENCING DIVISION
MANAGEMENT SERVICES AND SYSTEMS
SAFETY
LICENCING
HIGHWAY TRAFFIC BOARD
LICENCE SUSPENSION APPEAL BOARD (MEDICAL REVIEW COMMITTEE)
MOTOR TRANSPORT BOARD
TAXICAB BOARD

ORGANIZATION CHART
1986

Manitoba
Highways and
Transportation



HON., JOHN S. PLOHMAN
Minister of Highways and Transportation

Manitoba

Minister of
Highways and Transportation

Room 203,
Legislative Building
Winnipeg, Manitoba, CANADA
R3C 0V8

The Honourable Pearl McGonigal,
Lieutenant-Governor of Manitoba,
235 Legislative Building,
Winnipeg, Manitoba.

May It Please your Honour:

I have the privilege of presenting for the information of Your Honour the Annual Report of the Department of Highways and Transportation for the fiscal year ending March 31, 1985.

Respectfully submitted,

John Plohman

John S. Plohman
Minister

Manitoba Youth
Moving Ahead
International
Youth Year 1985

Manitoba

Deputy Minister of
Highways and
Transportation

209 Legislative Building
Winnipeg, Manitoba, CANADA
R3C 0V8

THE HONOURABLE MINISTER OF HIGHWAYS AND TRANSPORTATION

I am pleased to present this Annual Report which outlines the Department's accomplishments during the fiscal year which ended March 31, 1985.

The Department of Highways and Transportation participated in several very important events during 1984-85.

In April 1984, the provincial and federal governments signed two subsidiary agreements under the Economic Regional Development Agreement (ERDA). These agreements, which amount to $230 million focus on the development of the Port of Churchill and the continuation and enhancement of Manitoba's traditional role as a transportation centre.

The five year agreements include a wide variety of programs ranging from port, air, rail and highway infrastructure to analytical analyses and vehicle development such as a prototype Rail Bus.

The Traffic Operations Section of the Department was very involved in the largest single traffic operations event experienced in Manitoba, the visit of Pope John Paul II to Manitoba in September, 1984.

Planning for the visit and especially the Pope's outdoor mass at Bird's Hill Park, continued for ten months and involved the close co-operation of the Department, the City of Winnipeg, the R.C.M.P. and Winnipeg Police.

Several hundred sign installations, road closures and traffic signal installations were required to safely welcome and discharge the crowds associated with this event.

During 1984-85, the Department of Highways and Transportation underwent an internal reorganization. The Department has been restructured into six divisions, the heads of which report directly to the Deputy Minister.

This reorganization is in response to a need to provide greater opportunity for improving policy development direction within the Department, addressing department-wide issues, improving lines of communication and authority and enhancing the opportunities for career development. The new organizational chart for the Department is included in this report.

This document fulfills the reporting requirement laid down in the Highways and Transportation Department Act.

Respectfully Presented,

Boris Hryhorczuk, P. Eng.
Deputy Minister

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ABBREVIATIONS

A.C. - asphalt cement
Bdry. - boundary
C.N.R. - Canadian National Railway
C.P.R. - Canadian Pacific Railway
C.F. - cable ferry
CMP - corrugated metal pipe
CT - commercial truck
CR. - credit
CWT - hundredweight
Dist. - district
E. - east
E.D. - Electorial Division
HPS - high pressure sodium
H.F. (SSB) - high frequency (single side band)
Jct. - junction
lbs. - pounds
L.F. - linear foot
L.G.D. - Local Government District
M.fbm - thousand foot board measurement
M.V. - motor vessel
N. - north
N.E. 1/4 - northeast quarter section
No. - number
Prov. - province or provincial
P.R. - Provincial Road
P.T.H. - Provincial Trunk Highway
P.S.V. - public service vehicle
Rec. - recreational
R.L. - river lot
R.T.A.C. - Roads and Transportation Association of Canada
R.C.M.P. - Royal Canadian Mounted Police
R.M. - Rural Municipality
Sec. 34-24-12W. - Section, Township, Range, West
S. - south
S.P.C.M.P. - structural plate corrugated metal pipe
sq.ft. - square feet
T.C.H. - Trans-Canada Highway
T.T. - treated timber
U.V.D. - Unincorporated Village District
U.S.A. - United States of America
V.H.F. (F.M.) - very high frequency (frequency modulation)
V.H.F. (A.M.) - very high frequency (amplitude modulation)
W. - west

ADMINISTRATION

Personnel Services

The Personnel Services Section is responsible for providing personnel, administrative and payroll services and systems to management and employees of the Department. These services are provided through the development of policies and procedures and the provision of support services in recruitment, salary administration, pay and benefits administration, classification, organizational analysis, contract administration, collective bargaining, employee relations, employee health, and training and development.

The Personnel Section is split between both personnel related activity and payroll and benefits activity.

During the year a number of planned projects were completed. These included the development and delivery of an inhouse course to support supervisors at the middle and lower levels of the organization in terms of their responsibilities for ensuring job performance. Disciplinary action and Employee Assistance Programs were covered. In addition the inhouse performance evaluation system was implemented in other areas of the Department. This requires consultation, training and support to the implementation.

During the year, the Equal Employment Opportunity policy of the Department was enhanced with the inclusion of the Government's Affirmative Action Policy.

In terms of hiring under the Affirmative Action Policy a total of two full-time, fifteen departmentals and seventeen summer students were hired.

A total of ninety-two native persons were employed by contractors on thirteen different contracts for a total of five hundred and twenty-four person weeks of work. In the Outreach Recruitment area a total of thirteen career day presentations about employment opportunities with the Department of Highways and Transportation were completed.

FINANCIAL SERVICES

The Financial Services Section is responsible for providing central accounting, financial information and related administrative services to Departmental programs and management. The Section ensures that internal accounting systems are in place to monitor financial matters, including:

1) revenue and expenditure;
2) cash receipts and disbursements;
3) accounts receivable

This section is also responsible for the preparation of annual estimates and the Department's Quarterly Forecast of Expenditures and Revenues and monthly expenditure reports for managers.

During the year the Financial Services Section processed 56,499 payment vouchers to pay suppliers for goods and services received. Approximately 10,000 invoices were produced for services provided to other government departments, agencies and third parties with a total expenditure and recoveries of approximately $5.2 million.

During 1984/85 a computerized Accounts Payable System was implemented for the Mechanical Division and Financial Services sections of the department. The purpose of this system is to provide an interface with the Department of Finance Voucher Accounting System which eliminates the keytaping of the Payment Voucher data, except for the payment voucher number, by the Department of Finance data entry staff. This system reduces the length of time it takes to pay a supplier.

Newly paved Main Street in Morden

INTERNAL AUDIT

Internal Audit was established in the Department of Highways and Transportation in April 1984 to provide the Deputy Minister and departmental management with a broad-based independent systematic review and appraisal of all departmental operations for the purpose of advising management on its internal policies, practices and controls.

The group fulfills this management support role by:

- Planning, conducting and reporting internal audits in a manner that looks beyond a financial, compliance thrust and past orientation of audit effort to a present and future orientation of managerial practices, controls and program operations. This allows for an assessment whether management is provided with reliable information needed to make informed decisions and for accountability purposes.
- Auditing to a management process of planning, operating, controlling and evaluating and to management program delivery practices.

Internal Audit reports operationally to an Audit Committee comprised of the Deputy Minister and senior departmental executive. This committee approves annual and long-term audit plans and reviews all audit reports prepared by the audit function.

During the first fiscal quarter of 1984-85 staffing requirements were filled, the departmental internal audit policy and mandate was established, introductory meetings were held with managers and general departmental orientation was conducted.

During the second quarter, the audit methodology and the one year and five year audit plan were established. Once the plan was approved by the audit committee the audit section commenced its audit coverage.

Up to year-end Internal Audit had completed and reported upon three audits entities, Highway Traffic Inspection, Claim Investigation and the Program for the Transportation of the Mobility Disadvantaged in Rural Manitoba. In addition, Canadian Agreement on Vehicle Registration (CAVR) compliance and verification audits were also conducted. During this period an audit of the Bridge Division was started and is still in process at year-end.

COMPUTER SERVICES

Computer Services exists to support the Department of Highways and Transportation activities by evaluating, developing, implementing, maintaining, monitoring and supplying automated information exchange and processing systems that are efficient and effective. These services are further extended to the Driver and Vehicle Licencing Division through the Systems and Data Processing Section of that division.

Emphasis is placed on those tasks having a high economic and social return on investment. The department often takes advantage of systems that have already been developed by other transportation or related jurisdictions in order to save development costs and time.

Over one thousand computer programs, incorporated in two dozen applications, are maintained.

SYSTEM ACCOMPLISHMENTS

A major Feasibility Study for the implementation of a computer-aided design and drafting system for the department was completed. The findings of this study, now under review, will lead to dramatic changes in department methods.

The project Definition for the Air/Radio Unit Management Study was completed and recommended that system development proceed separately for the two components. A Feasibility Study and Specification for a system was awarded to Canadian Management Consultants.

The Accounting, Procurement and Inventory Management System (A.P.I.M.S.) was expanded to include the Wilkes Avenue store and an equipment inventory was added. All stores are to be converted to this system next year.

The Highways Feature Inventory was added to the Maintenance Management System. This enhancement was done as a pilot study on the use of FOCUS, a new "fourth generation" programming language offered through Manitoba Data Services. Computer Services intends to promote the use of FOCUS to enable users to provide their own system solutions where applicable.

Payment voucher processing has now been fully implemented for Head Office and Mechanical Equipment Services with an electronic transfer of data to the Department of Finance's Voucher Accounting System.

Office automation/word processing studies and consultations were provided in Administrative Services Division and to Driver and Vehicle Licencing Division, as well as to other Departments. Several new workstations have resulted.

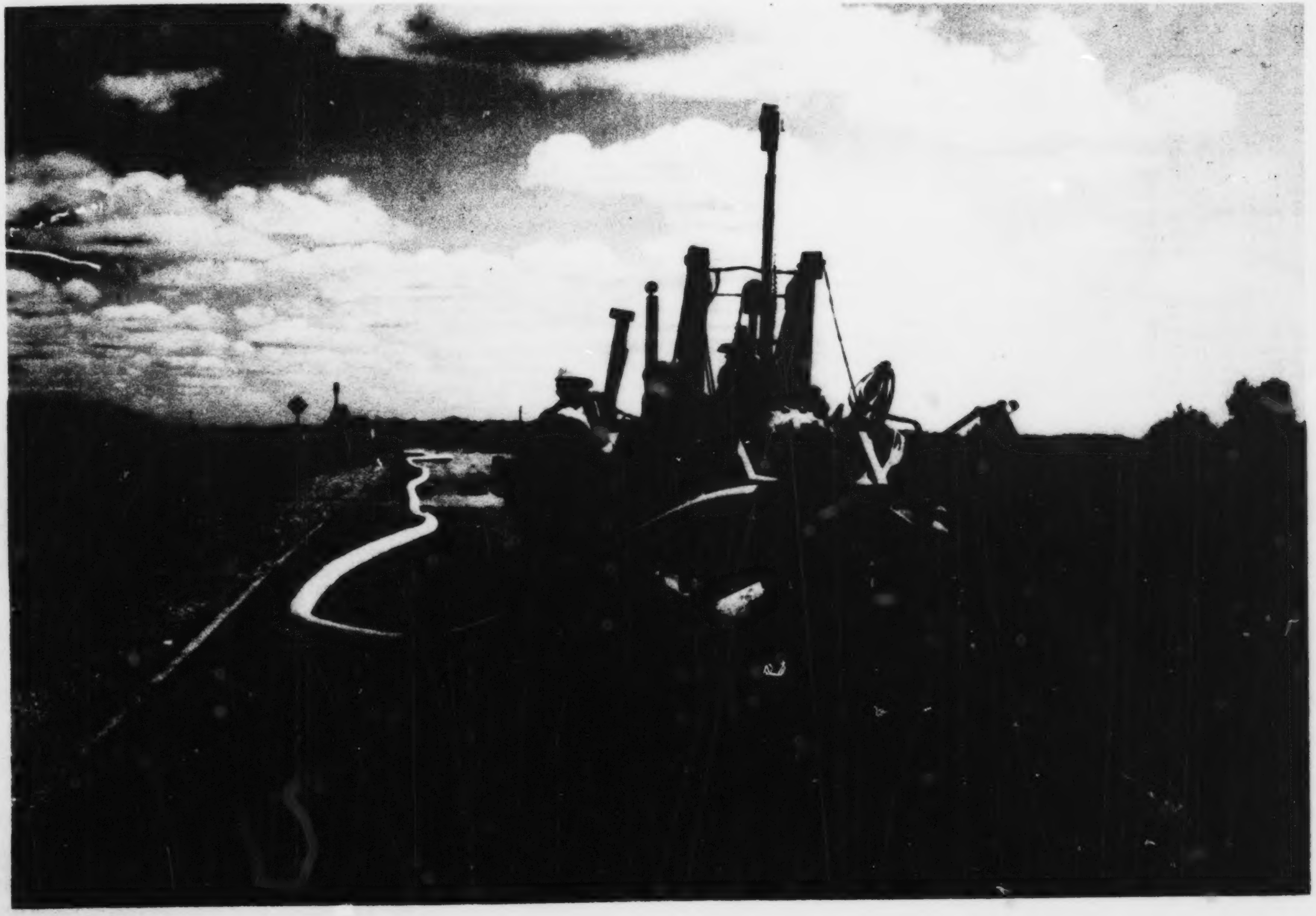
Other activities included several enhancements to the Highway Needs Study System, improved processing of airport landing fees, and installation of updated operating system software.

SYSTEM PRODUCTION AND OPERATIONS

Eleven thousand batch jobs were processed. The total number of records keypunched and keyverified was approximately four hundred thousand.

One hundred and forty-eight thousand on-line inquiry update transactions were submitted against data bases of the Vehicle Driver System and the Accounting, Procurement and Inventory Management System. This represents a 108% increase from last year, attributable to increased usage of A.P.I.M.S.

Approximately four thousand hours of connect time originated from our remote user terminals having a direct access to Manitoba Data Services.



Installation of perforated plastic pipe below centreline on P.T.H. No. 45

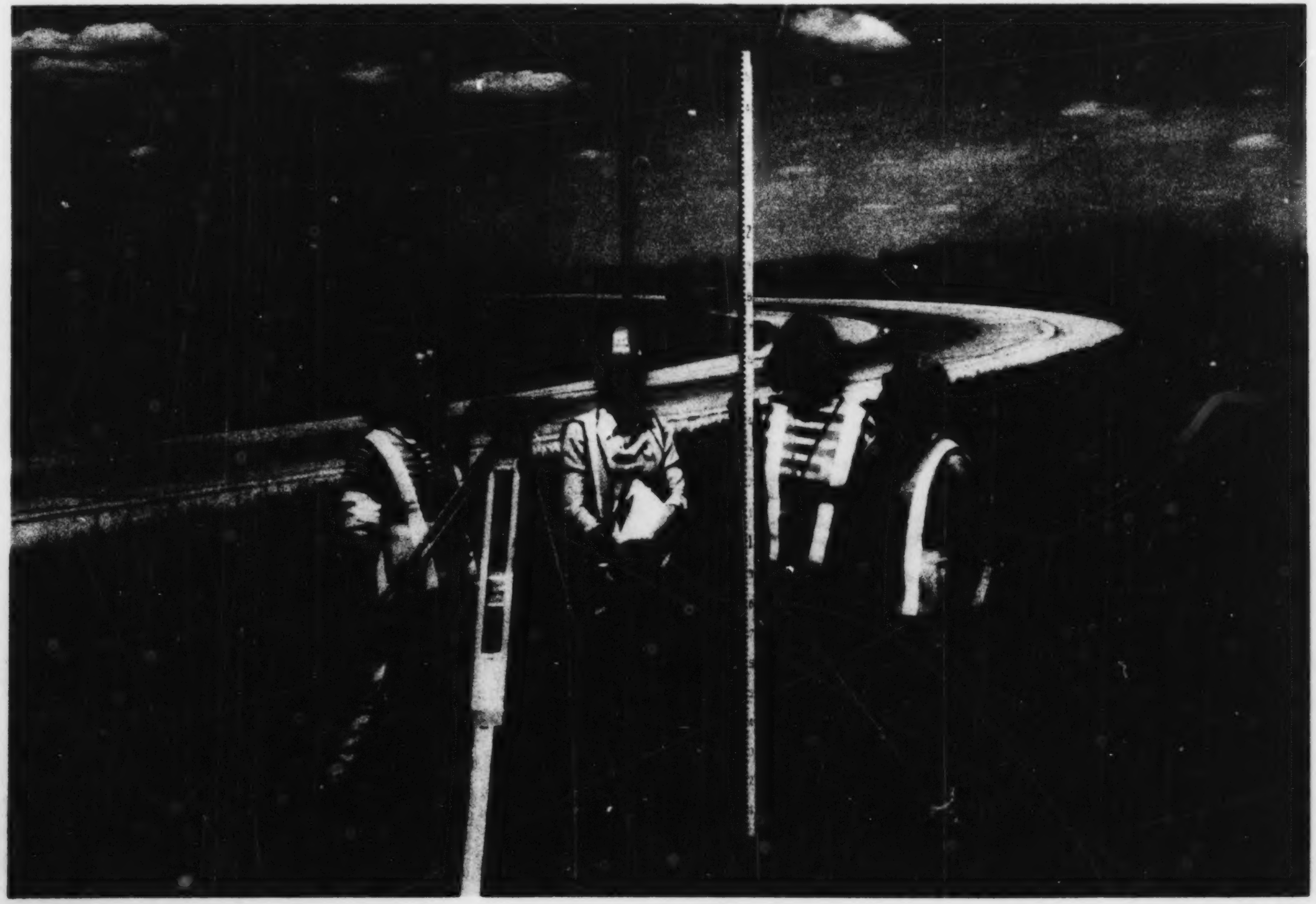
COMMUNICATIONS

A Departmental Communications Section was established for the first time in the Department of Highways and Transportation in June, 1984.

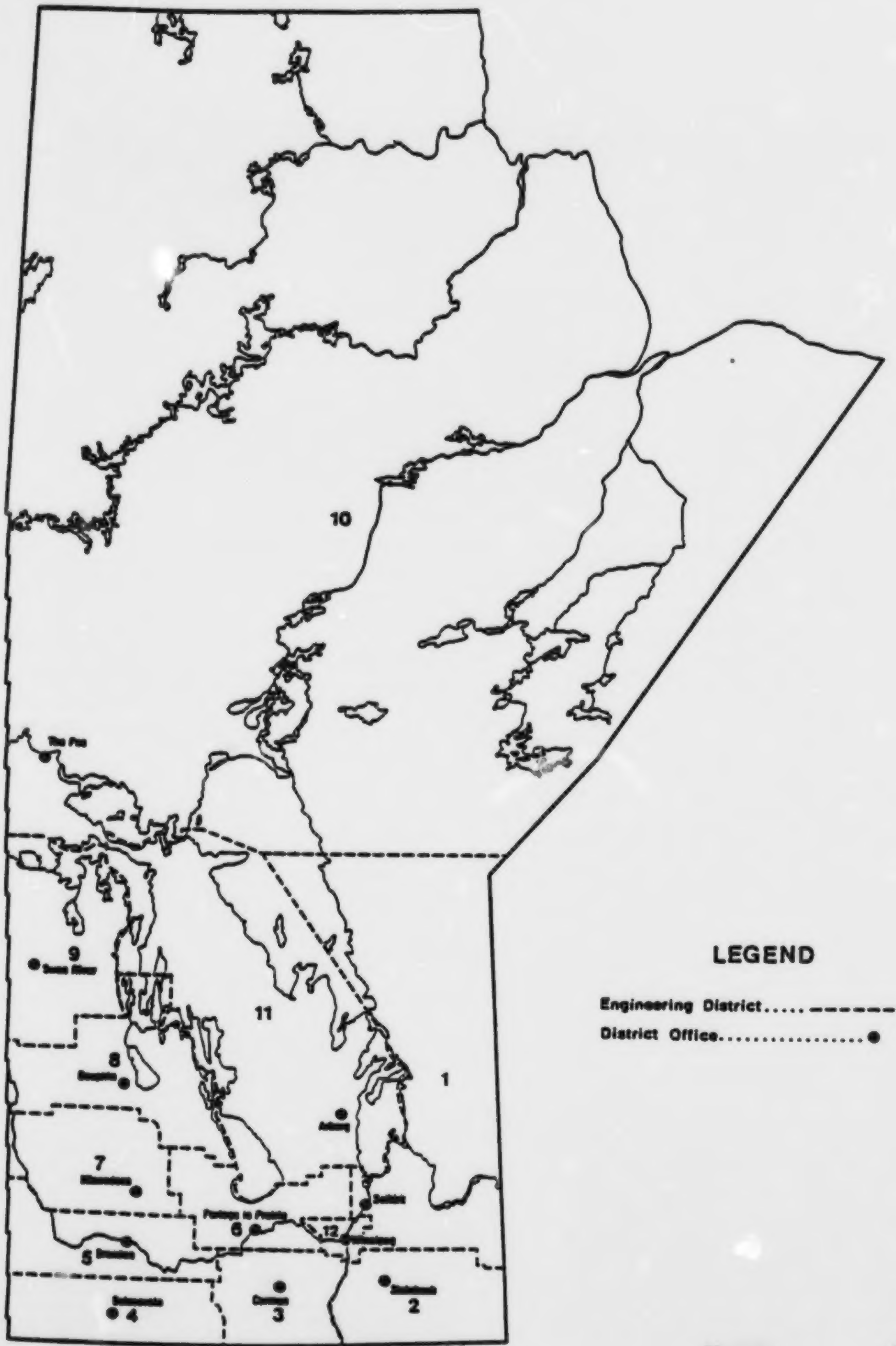
The Communications Co-ordinator's mandate includes media relations, improving public information, writing and editing department news releases and documents, speech-writing, organizing news conferences, assisting with the department's annual report and developing a communications strategy for the department. The Communication Section also provides support for the department's activities and government strategy and policy formation.

A three-year communications plan aimed at increasing public understanding of the function and services for the department, improving internal communications and media relations has been developed, accepted and is being implemented.

The strategy includes a public display, an audio-visual and information brochure on the role and responsibilities of the department, creation of a department newsletter and provision of communication seminars to department staff.



Survey crew working on P.T.H. No. 44, east of P.T.H. No. 59 interchange


10
The Pas
9
Swan River
11
8
Dauphin
1
Arborg
7
Selkirk
Portage la Prairie
6
12
5
Brandon
Carman
4
3
2

LEGEND

Engineering District..... - - - - - - - - -

District Office.................. ●

Manitoba
Highways and
Transportation
ENGINEERING DISTRICTS

CONSTRUCTION

The construction program includes a variety of activities such as grading, gravelling, bituminous paving and concrete paving along with acquisition of right-of-way for these projects.

The construction program administered $85,226,001.92 in performing the work. For purposes of administration the Province is divided into 12 engineering districts whose boundaries are shown on the map on the opposite page.

Some of the major projects in the construction program are:

Engineering District	Major Projects		
6	PTH 16 northwest of Macdonald	Bituminous Pavement	$3,278,000
2	PTH 12 vicinity of Ste. Anne	Base and Concrete Pavement	2,900,000
1	PTH 59 south of PR 508 - Brokenhead I.R.	Base and Pavement	4,350,000
5	PTH 1 Alexander - Oak Lake	Base and Pavement	4,500,000
12	PTH 75 S. Limit of Winnipeg - PR 429	Base and Concrete Pavement	3,380,000
8	PTH 10A - Dauphin By-Pass	Grading & Structure Shoulder Widening	1,650,000
4	PTH 10 - US Border to Boissevain	Base and Bituminous Pavement	3,700,000

The Construction program involved 165 formal contracts which range in value as detailed in the construction tables C1, C2 and C3.

The continuing resurfacing of P.T.H. No. 100 and 101 (The Winnipeg By-Pass) completed another phase, that being P.T.H. No. 3 to Wilkes Avenue at a cost of $2,203,000.

The concrete curb and gutter in the project provides improved safety and driver comfort as a result of the increased shy distance to the curb. The gutter width of 20 inches allows for a median lane width increase to 13.7 feet from 11.5 feet.

Construction of bituminous pavement overlay adjacent to the vertical face of the gutter portion of the curb and gutter allows for better deliniation of the inside edge of pavement and a smoother ride.

The construction training program held a number of training sessions during the year. In co-operation with the Materials Section, Computer Section and District staff, training sessions were held for the following District employees:

Project Supervisors and Resident Engineers - 490 man days
Instrument man training - 372 man days
Inspectors training - 175 man days
and R.D.S. (Roadway Design System) - 260 man days

Operating under the Construction and Maintenance Division, the Safety and Health Section serves the Department in the area of industrial hygene, safety engineering, occupational health and safety inspections.

The overall objective and challenge of the Safety and Health Program is to promote a high level of Safety and Health awareness amongst personnel, to reduce injury and illness and yet maintain an efficient routine operation.

A major accomplishment for this period was the restructuring of the Safety and Health Committees in a manner which would be more effective in identifying and resolving concerns in the workplace. A key element of the restructuring process was ensuring that all committee members received training with respect to their duties and responsible as committee members.

MAINTENANCE

Maintenance accounts for 27.3% of the total department expenditure. The maintenance operation of $52,936,768.97 was split between summer (69%) and winter (31%).

The maintenance program is carried out by 92 beat crews, and 81 drag beats which are situated rather uniformly throughout the Province. In addition to the above, there are specialized crews which look after seal coats, stockpiling premixed asphalt, gravel crushing, concrete repair, routing and filling bituminous pavements, traffic signals, pavement marking and bridge repairs.

The following outline indicates the units accomplished and/or manhours expended on major maintenance activities.

a) SUMMER

Premix Patching	50,370	cubic metres
Spray Patching	1,248,624	litres
Seal Coat Program	1,223	lane kilometres
Concrete Repairs	24,472	manhours
Dragging Gravel Roads	416,616	pass kilometres
Dust Control	2,619	tonnes calcium chloride
Drag Gravel Shoulders	35,584	shoulder kilometres
Mowing	31,206	hectares
Sign Maintenance	39,287	manhours
Erecting New Signs	278,891	square decimetres
Spring Weight Restrictions	42,903	manhours
Pavement Marking	16,911	kilometres

b) WINTER

Snowplowing	1,118.781	pass kilometres
Snow Clean-up	77,926	manhours
Sanding	42,610	cubic metres
Spreading Chemical	87,041	pass kilometres
Winter Stand-by	33,130	manhours

The 1984/85 winter was the most severe one experienced by the department in many years. This is substantiated by the fact that there was a 35.5% increase in winter expenditures over the previous year.

Drainage improvement on P.T.H. No. 20

TRAFFIC INSPECTION

The Manitoba Department of Highways and Transportation includes a Traffic Inspection Section responsible for monitoring the movement of truck traffic over the Manitoba Highways System and enforcing regulations intended to protect the public and minimize road surface damage.

The Inspection staff, consisting of 56 personnel when in full operation, are assigned to one of five enforcement regions. Each region is the responsibility of a supervisor who oversees the operation of at least one permanent Highway Traffic Inspection Station, and in some regions, a portable electronic scale, and portable MD400 Wheel Weighers. These portable scales are used when establishing a Temporary Highway Inspection Station. The locations of these temporary stations are predetermined by specifically constructed "On Highway Traffic Inspection Sites", of which 13 are now in operation.

Each Inspector, before commencing his official duties, is sworn in under the Manitoba Police Commission, which empowers the Inspector to enforce the Highway Traffic Act, regulations and other Manitoba statutes.

Included in the duties of the Inspection staff are:

1. Enforcement of the Highway Traffic Act, Motor Vehicle Transportation Act (Canada) and the Motive Fuel Tax Act.
2. Investigation of complaints and violations of motor carriers in non-compliance with Part VIII of the Highway Traffic Act and regulations imposed by the Motor Transport Board.
3. Laying charges for infractions of the aforementioned Acts and regulations.
4. Filing temporary commercial vehicle authority reports.
5. Issuance of Motive Fuel Permits.
6. Issuance of Single Trip Permits.
7. Issuance of trip insurance.
8. Providing the public with general information.

The Traffic Inspection Section, co-operating with their counterparts in the other provinces, has been able to organize various detailed pre-determined inspection blitzes. This results in thorough inspection of truck traffic from the west coast to the east coast, which might have otherwise evaded inspection in one of the jurisdictions. The success of this venture has prompted this section to develop intra-provincial blitzes in cooperation with other enforcement agencies in this province to more effectively monitor truck traffic in Manitoba.

In an effort to promote better relations with the trucking industry, the inspection section has co-operated with the Manitoba Trucking Association in assisting with the annual Professional Truck Driving Championships.

The following table describes some of the more important operational statistics from March 1, 1984 ending February 28, 1985.

Highway Traffic Inspection Division
Statistics for the Year 1984/85

	1983/84	1984/85
Court Order Notices	572	2,091
Inspection Reports	3,249	2,823
Investigation Reports	382	608
Written Warnings	656	449
Observation Reports Investigated	156	58
Single Trip Certificates	13,910	20,255
Motive Fuel Permits	11,055	13,243
Transit Licences	546	245
Single Trip Fees	$546,987.63	$460,919.68
Fuel Tax Fees	$268,489.00	$269,813.57
Transit Licence Fees	$ 7,851.00	$ 3,675.00

PROSECUTIONS INSTITUTED AND DISPOSED OF:

Overweight & Dimensions	1,676	2,057
Driver Licencing	155	105
Faulty Equipment & Safety	266	318
Authority & Vehicle Licencing	292	244
	2,389	2,724

BRIDGES AND STRUCTURES

GENERAL

Bridges and Structures is responsible for the design, construction and maintenance of bridges, large culverts and overpass structures on highways and roads under the jurisdiction of the Department of Highways and Transportation.

DESIGN

The design of three major structures was completed in the 1984-85 fiscal year with construction commencing on each of them prior to the end of the fiscal year. The largest of these being 100 m in length was the Mossy River Bridge on P.R. No. 364, near Winnipegosis. The other two major structures were the 85 m long Vermillion River Bridge on the Dauphin By-Pass and the 77 m long Brokenhead River Bridge on relocated P.R. No. 435. Numerous other non-standard bridges were designed utilizing precast prestressed concrete girder superstructures.

The design of five reinforced concrete box culverts was completed during the fiscal year. These five, plus three others which were previously designed and tendered, were constructed in P.T.H. Nos. 1, 2, 7 and 75, with completion of all by January, 1985.

Numerous structures employing modules of standardized precast prestressed concrete channel girders were economically designed for Provincial Road locations.

Computer design assistance was provided to the engineering consultant responsible for designing the Red River Bridge located north of Selkirk. Our computer programs were used to enhance the design of the continuous steel girders and the reinforced concrete piers and to investigate the river bank's stability.

An agreement between the Province and M. M. Dillon Limited, consulting engineers, was entered into for the design of a new bridge over the Red River north of Selkirk.

CONSTRUCTION

As well as continuing the supervision of work carried over from the previous fiscal year, 76 contracts and construction orders which included 52 separate projects were let during the 1984-85 fiscal year.

The staff of the construction section carried out numerous bridge inspections upon receipt of Request for Bridge Assistance from District Engineers.

An item of special interest is the strengthening of three bridge decks on P.T.H. No. 16 between Gladstone and Neepawa by means of resurfacing with high density concrete overlay.

MAINTENANCE

The Bridge Division maintenance crews worked on 73 separate projects which included construction of and major repairs to 9 bridges, general repairs to 10 structures, painting and cleaning of 19 structures, accident repairs to 16 structures, and other projects varying from erection of Bailey bridges to installation ot Michigan shoe anchors and providing and setting up equipment of official ceremonies.

Ferries

An item of special interest is the repair of the Treesbank Ferry II on Provincial Road No. 340. Repair work involving re-sealing of timbers was carried out in 1984 to prevent leakage.

The Treesbank Ferry on Provincial Road No. 340 is operated by the Rural Municipality of South Cypress under a grant system.

Statement of Bridge Materials Stockpiled At Beausejour and Dauphin

Inventory - April 1st, 1984	$ 1,003,955.56
Purchases	631,491.73
Charges for Inspection and Handling	22,975.86
Sub-Total	1,658,423.15
Less Issues	609,565.76
Inventory as of March 31, 1985	$ 1,048,857.39

Summary of Issues

Type of Material Issued	Quantity	Approximate Unit Price	Total Value
Treated Timber	544.409 m^3	437.43	$238,138.36
Treated Timber Piles	4 854 meters	20.21	98,088.42
Steel "H" Piles	3 378 meters	55.70	188,162.11
Bridge Iron	12 535.229 kg	2.25	28,207.65
Steel Pipe Guardrail	545 pcs.	62.80	34,225.32
Steel Beam Guardrail	165 pcs.	69.63	11,488.53
Guardrail Terminals	70 pcs.	18.25	1,277.24
Paints, Primers, Thinners	Nil	Nil	Nil
Timber Joint Preserver	452.61 L	5.29	2,394.99
Steel "H" Pile Points	132 pcs.	57.45	7,583.14
	Total		$609,565.76

Treated timber and treated timber piling accounted for 55% of the total value of bridge materials issued during the fiscal year. Steel "H" piling including steel pile points accounted for 32% of the total value of issues, leaving a balance of 13% for the remaining miscellaneous items. Paints and related products were purchased directly, so do not appear as inventory items.

The overall increase in cost of bridge materials amounted to 3.82% which resulted from a slight increase in cost of all types of materials purchased. The year end inventory value wise remained constant as compared to the previous year end, however, total issues increased by 65% over the previous year.

1984-85

Subsurface Soil Explorations

The following is a list of major activities undertaken in this fiscal year.

Appropriations	P.T.H. 15-8A	P.R. 15-8A	Main Market 15-8A	Total
Sites	17	29	4	50
Borings	37	73	17	127
Linear Metres	450	879	139	1,468

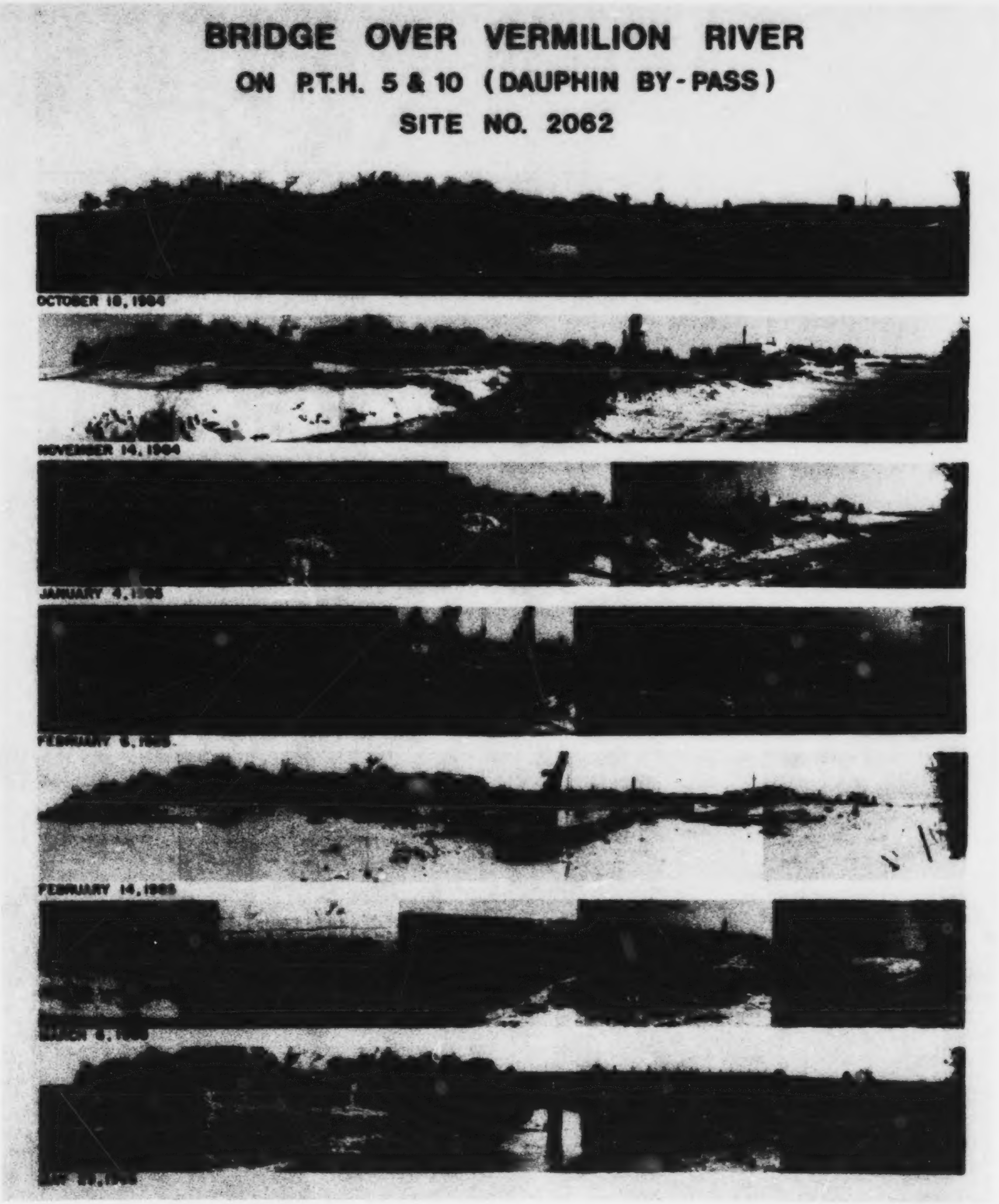
Others

		No. of Borings	Linear Metres
District 7	P.R. 359 Road Cuts	4	68
District 7	P.R. 478 Road Cuts	5	52
District 8	P.R. 482 Slide Area	6	96
Red River	North of Selkirk	41	538
Totals		56	754

Field Sampling and Testing

Standard Penetration Tests	972
Vane Shear Tests	230
Shelby Tubes	271
Split Spoon Samples	947

Unloading bridge materials in Beausejour Yard


BRIDGE OVER VERMILION RIVER
ON P.T.H. 5 & 10 (DAUPHIN BY-PASS)
SITE NO. 2062
OCTOBER 18,1984
NOVEMBER 14,1984
JANUARY 4,1985
FEBRUARY 6,1985.
FEBRUARY 14,1985
MARCH 6,1985

Composite of bridge construction from ground breaking to completion

PLANNING, DESIGN AND LAND SURVEYS

The Planning, Design and Land Surveys Division provides the Department with the necessary planning, programs, roadway design, and legal plans to develop a primary (P.T.H.) and secondary (P.R.) system of roads in the Province; it also provides for the control of land use and access along these highways.

HIGHWAYS SYSTEMS PLANNING

During the 1984/85 fiscal year, highway planning staff were involved in the following major studies and events:

Brandon Eastern Access Study

This study is a follow-up to the Brandon Area Provincial Highway Study which was completed in December, 1983. The study is being carried out by a consultant to determine the best location for a new access route from the Trans-Canada Highway to Brandon's eastern industrial area. The existing route is through the built-up part of the city and passes through residential areas where transportation of hazardous goods is a source of considerable local concern.

This further study of alternatives is required because a much higher priority has been placed on the implementation of the access route than recommended in the Brandon Area Provincial Highway Study. The alternative routes identified by the consultant to date include some closer to the developed areas of Brandon than the long-range proposal recommended in the previous study. These alternatives are presently being evaluated and the route selection process is expected to be completed soon.

Highway Classification Study

This in-house study is being undertaken to update original work dating back to the 1960's. Also, there is a need to review current standards used for the provincial road system. The study has systematically established highway classifications by defining attraction nodes (population centres, recreation areas, resource developments, etc.) and examined existing design standards relative to the classifications.

Highway Systems Planning presented the preliminary findings of this study to the District Engineers prior to their meeting in November and are presently meeting and discussing in detail with the individual Districts and others the final classification system and design standards.

As a follow-up to this study, it is intended to review statutory control lines as applicable to each highway and to make recommendations as to which highways should have access control under the jurisdiction of the Highway Traffic Board.

Papal Visit - September 16, 1984

Pope John Paul II visited Manitoba Sunday, September 16, 1984. After fulfilling engagements in the City of Winnipeg, including a drive- about, the Pope proceeded via PTH 59 to Bird's Hill Provincial Park where about 75,000 people had already congregated for a Mass. The Park opened to the public at 4:00 a.m. on the 16th and people, including the handicapped, travelled to the Park by tour and charter bus (about 260 buses in total), shuttle bus (about 900 buses in total), private motor vehicles (about 5500 in total), and by bicycle and on foot. The weather was dry with comfortable temperatures, and people travelled to and from the park without incident, most of the visitors having departed from the park by 8 p.m. The traffic plan for PTH 59 worked well, with the Winnipeg shuttle bus running on the west side of PTH 59 south of the Park as a two-lane, two-way operation. The east side of PTH 59 was reserved for cars and operated as two lanes northbound before the Mass, and two lanes southbound afterwards - between PTH 101 and the Park.

Apart from being actively involved in the Papal Visit Transportation Committee, the Department was directly involved in the construction of temporary (and in one case permanent) roadways; fabrication and erection of directional signs; installation of temporary traffic signals; construction of the shuttle bus terminal in the Park; levelling and fencing of parking areas and pedestrian walkways; gravelling and dust treatment of gravel roads, and construction of a temporary bridge over the Red River Floodway. The cost of the above works (not including removal of temporary roadways) was approximately $480,000 to which the Province contributed $250,000. One of the greatest benefits of the event, in terms of the Province's involvement, was the team spirit that developed between the various agencies represented on the Transportation Committee. This could prove a valuable resource if similar special events planning is required in the future.

Development Review

The Department reviews land use and development proposals adjacent to the provincial highway system in order to maintain a high level of safety for the travelling public, and also to protect the considerable provincial investment in the transportation infrastructure. During the year, the Department reviewed more than fifty land use documents and development plan amendments.

Members of the Planning Section participated in (i) the Provincial Land Use Policy Review Committee, (ii) Local and Regional Land Use Committees, (iii) Aluminum Company of America Technical Advisory Committee, (iv) the Riding Mountain Task Force, and (v) the Ste. Rita Subdivision Task Force.

During the regular review of subdivision applications, nearly seven hundred proposals were studied and comments submitted to the Municipal Planning Branch or the City of Winnipeg Department of Environmental Planning.

Department staff participated in two Municipal Board hearings and in various meetings with municipalities and Planning Districts.

Approximately four hundred Crown Land proposals were reviewed and comments submitted to the Department of Natural Resources. These proposals could affect several modes of transportation (e.g. air, water or highway) or granular deposits required for highway construction. The proposals consist of (i) sales, leases and general permits of Crown Land; (ii) exchanges of Crown Land with various Local Goverment Districts; and (iii) reservations of Crown or various municipal, provincial and federal authorities.

HIGHWAY PROGRAMMING

The inventory files for trunk highways and provincial roads were updated to include 1984-85 construction records, highway geometric changes, average maintenance costs, traffic volumes, pavement condition ratings, and accident statistics.

The highway system was analysed for deficiencies and sections of highway that required improvement were identified. In addition to the annual pre-advertising program and the annual construction program, a 3-year highway program was developed during the year. In this 3-year program, proposed projects have been listed under the categories of rehabilitation, upgrading or new construction. During program review, priority is given firstly to rehabilitation projects, then to upgrading projects and lastly to new construction projects.

STUDIES AND STATISTICS

The annual traffic counting on trunk highways and provincial roads continued and the annual average daily traffic map was prepared. A new format was introduced for the map with traffic flow shown to scale and truck volumes recorded.

A truck weight survey was carried out seasonally at 3 locations. As well, traffic classification was undertaken at 20 locations on a seasonal basis. Fifty-five special one-day counts were taken for signal, pedestrian corridor, or intersection design studies. Special traffic counts were taken in conjunction with the Papal visit.

Golden River traffic counters were installed at 11 permanent station locations. The traffic volumes from these counters are collected via telephone and then entered directly into the computer for processing. A total of 19 counters have now been installed.

The metric inventory of trunk highways and provincial roads was continued.

Land Use and Access Control

The Department provided evidence to 66 Traffic Board hearings where 672 applications for permission to erect structures and advertising signs or to construct access approaches to Limited Access Highways were heard. A similar review was made of permit applications involving other departmental roads. The Department attended 8 Public Utilities Board hearings called to deal with appeals of applicants who were previously denied access or building permits by the Traffic Board.

HIGHWAY DESIGN AND DRAFTING SERVICES

Roadways design activities were undertaken both in the central Design Section and in the district offices. The cental Design Section continued to be responsible for the more complex roadway design projects such as functional and final plans for multi-lane highways, traffic interchanges, channelized intersections, and urban arterial connections. Design Section also developed geometric design standards and criteria, undertook field inspection trips to evaluate existing design features, coordinated roadway designs with other sections and agencies affected by the Department's proposed highway facilities, and coordinated the review of projects submitted to the Manitoba Enviromental Assessment and Review Agency.

The district offices continued to be almost exclusively responsible for the detailed designs and field-rated design activities such as the preparation of location plans showing right-of-way requirements for upgrading existing roads and new locations, the preparation of profiles, drainage designs and quantity calculations. For the design activities undertaken in the district offices, the central Design Section were required to provide basic design criteria, and guidance at problem or sensitive areas during the design stage. Upon completion of the district designs, the Design Section reviewed the plans and profiles prior to submission to Head Office for approval.

Some representative road design projects and studies undertaken during the year were:

- New Red River Crossing, North of Selkirk. This project required the preparation of functional designs of alternative new river crossings and approach roadways from P.T.H. No. 9 to P.T.H. No. 59N. Once the preferred location was established, the plan of the recommended road layout and right-of-way was refined and detailed.

- P T.H. No. 44 (P.T.H. No. 59 - East of Beausejour). This project involved a public input program to illustrate and receive input on the preferred design. Meetings were held with the Beausejour and Selkirk Local Land Use Committees as well as the Brokenhead and Selkirk District Planning Boards. One-day open houses were held at Beausejour and Garson.

- P.T.H. No. 20 (Dauphin Beach to P.T.H. No. 5). A location plan prepared by the district involving the design of a number of at-grade intersections, including those to serve the Parks Branch recreation areas, was reviewed in detail.

- P.T.H. No. 10 through Mafeking. Guidance was provided to the district for the design of a semi-urban section through the Village of Mafeking.

- Service Roads on P.T.H. No. 10 north of Riding Mountain National Park. A detailed design showing the proposed service roads required to consolidate a number of private access points was prepared.

- P.T.H. No. 1W - Oak Lake Bypass. A design profile submitted by the district office was reviewed in detail.

- P.T.H. No. 75 - Land Value Appraisal Commission Hearing. Staff attended a Land Value Appraisal Commission hearing as a witness on behalf of the Department.

- P.T.H. No. 10 through Boissevain. A paving limits plan for an urban roadway design through the Town of Boissevain that was prepared by the district was reviewed in detail.

The Design Section continued to be responsible for preparation of photobase plans to be used for location studies (i.e routing at Virden, proposed upgrading of P.T.H. No. 26 from P.T.H. No. 1A to P.R. No. 430, P.T.H. No. 75 from P.R. No. 429 to Morris, etc.).

Main Street Manitoba Projects

The Main Street Manitoba Program, which is administered by the Department of Municipal Affairs, endeavours to enhance the main street of urban communities by means of landscaping and streetscaping (i.e. planting of trees, placement of benches, ornamental lighting, etc.).

This Department's responsibility is to ensure that the Main Street Manitoba proposals are compatible with present and future highway needs. The Department's involvement varies from reviewing conceptual and detailed construction plans, to coordinating main street improvement with proposed highway projects.

Drafting Activities

The Drafting Section updated district, municipal, town and village maps to incorporate the latest information regarding new locations, numbering, and surface type. One hundred large scale municipal maps have now been redrawn using the scribe method, with metric versions produced for general use. Thirteen large wall maps were also updated to include all changes, including the maps in the Minister's and Deputy Minister's offices.

The Drafting Section prepared a new traffic flow map using the scribe method. Scribe sheets for the Official Highway Map were again revised, however, it was decided to re-print the 1984-85 map and consider a new design for 1985-86. A new traffic count location map was prepared as well as 1,003 sketch plans for building signs and access control for Highway Traffic Board meetings and the Planning Section.

Drawings for numerous railway and gas pipeline crossings were drafted for locations that affected provincial highways. Charts and maps were prepared for the review of proposed subdivisions throughout the Province. Various maps and plans were prepared for rail line abandonment as well as Crown Land sales in Manitoba. Revisions were made to location plans as required throughout the year.

Special photo enlargements were made for various location areas throughout the Province, as well as mosaics and charts for special projects such as the Winnipeg-Selkirk Corridor Study, the Selkirk study area for a proposed new river crossing, the Bird's Hill Park area for the 1984 Papal Visit Transportation Plan, and the Brandon Area Provincial Highway Study.

Maps and charts were prepared for a road classification and control line study. Maps were prepared showing the locations where seismic testing is being carried out along allowances in southwestern Manitoba.

New organization charts were drawn as well as graphs, charts and maps for various projects required by other sections such as Materials, Transportation Division, Mechanical Division, and the Maintenance Section.

The Drafting Section also assisted with the highway construction program and the pre-advertising program by preparing maps and covers for the reports. Slides were taken of various construction projects throughout the province for presentations at the annual R.T.A.C. Convention and for the Official Highway Map.

LAND SURVEYS

As a result of a re-organization of the Department in 1984, the Land Surveys Section has become part of the Planning, Design and Land Surveys Division.

During the fiscal year 1984-85, this Section's field and office activities were similar to the average of the previous three years, according to the statistical summary following. Using this average as a base, there was an increase in provincial trunk highway surveys, miscellaneous surveys, number of plans drafted, expropriation requests, and Orders of the Minister closing public roads. The acquisition of a Rotring Scriber 20 drafting system aided the drafting section in establishing a new record in the number of plans drafted in one year.

There was a decrease in the number of kilometres of section line retracement, standard posts placed, centre line kilometres of roads surveyed, provincial road surveys, other road surveys, retracement surveys, plans registered in the Land Titles Offices and survey requests.

There was a decrease in the number of survey requests carried over by this Section and an increase in the number of unregistered plans at Land Acquisition Branch waiting to be processed for registration.

Some of the major projects completed during the year were surveys of Lac Brochet and Pukatawagan Airports, Provincial Road 304 from Black River to Manigotogan, and a road from Red Rose to Jackhead Indian Reserve.

A new policy for acquisition of right-of-way came into effect April 1, 1984 whereby all negotiations with respect to compensation for required property are to commence after expropriation of the property takes place. As of March 31, 1985, there were 24 expropriation plans waiting for processing at Land Acquisition Branch.

Electronic measuring devices utilizing an infrared light source are being updated on a continual basis in this section.

The Chief Land Surveyor served on the Canadian Council on Surveys and Mapping.

GENERAL

Staff reviewed 284 Manitoba Telephone System buried cable proposals adjacent to provincial and municipal roads. In all cases, the utility company was advised where to locate their lines so as to avoid disruption from possible future highway construction operations.

A staff member, in conjunction with representatives from the federal Railway Transport Committee and the railway companies, investigated railway crossings for which signal protection or other revisions had been requested. Approval was received to install signals at four unprotected highway-railway crossings on the provincial highway system. Various abandoned rail lines were also inspected to determine what portions of former railway right-of-way should be retained for future highway purposes.

Contact was maintained with technical organizations in the highway field, including the Roads and Transportation Association of Canada (R.T.A.C.), the Western Association of Canadian Highway Officials, the U.S. Transportation Research Board, and the Institute of Transportation Engineers. Senior engineers worked on national technical committees including the Geometric Design Committee and the Highway Statistics Project Committee of R.T.A.C.

Statistical Summary and Comparison of Operations

	1984/85	1983/84	1982/83	1981/82
Kilometre of section line retracement	1260	1490	1402	1542
Standard post placed at section corners	949	972	984	982
Centreline kilometres of all road surveys	437	518	636	582
Provincial Trunk Highway surveys	20	21	13	13
Provincial Road surveys	40	41	40	57
Other road surveys	9	6	9	15
Miscellaneous surveys	20	17	16	14
Retracement surveys	29	29	20	43
Plans drafted	155	136	132	144
Plans registered in Land Titles Offices	119	124	121	128
Orders of the Minister closing Public Rds.	39	42	27	31
Survey requests	108	113	131	130
Expropriation requests	24	17	16	18
Carryover of unregistered plans at Land Acquisition Branch	79	45	65	65
Carryover of survey requests	16	19	33	30

MECHANICAL EQUIPMENT SERVICES

The Mechanical Equipment Services administers and maintains the fleet of equipment required by other operating branches of the Department to maintain the Provincial roadway system, remote airports and ferry services.

Major shop complexes are located in Winnipeg, Brandon, Dauphin, The Pas, Thompson and Beausejour with satellite shops at Boissevain and Swan River.

Major types of equipment and the quantities are as follows:

Trucks, Light duty	293
Trucks, 2 tonnes	235
Trucks, miscellaneous	100
Motor Graders	163
Wheeled Tractors	281
Loaders	72
Rollers	212
Sand Spreaders	243

Also included is the following types of specialized equipment:

Asphalt Distributors	53
Tar Kettles	83
Asphalt Mixers	12
Sweepers	38
Centre Line Markers	7
Gravel Crushers	2
Cabooses	80
Diamond Drills	2
Swathers	28
Brush Cutters	4

Heavy snowfall in the western and northern areas of the Province placed a heavy demand on personnel and equipment during the winter months.

SIGN SHOP

Sign requirements for the Department are manufactured in the sign shop located in Dauphin. Silk screening and legend applications are used to mass produce signs to fill anticipated requirements or specific orders.

Total value of signs produced during this year amounted to $798,495.65, with year end inventory valued at $470,536.75.

WAREHOUSE STORES

Warehouse operations are maintained at major locations to supply fuel, repair parts and other supplies for the engineering districts and other divisions of the Department.

Total issues for this year amounted to $6,202,720.91 with year end inventory valued at $4,620,548.57.

An on line computerized inventory management system has been implemented in three Winnipeg stores, and the balance of the stores will be phased in on a batch operation.

The system provides inventory management reports to give greater control over stock levels.

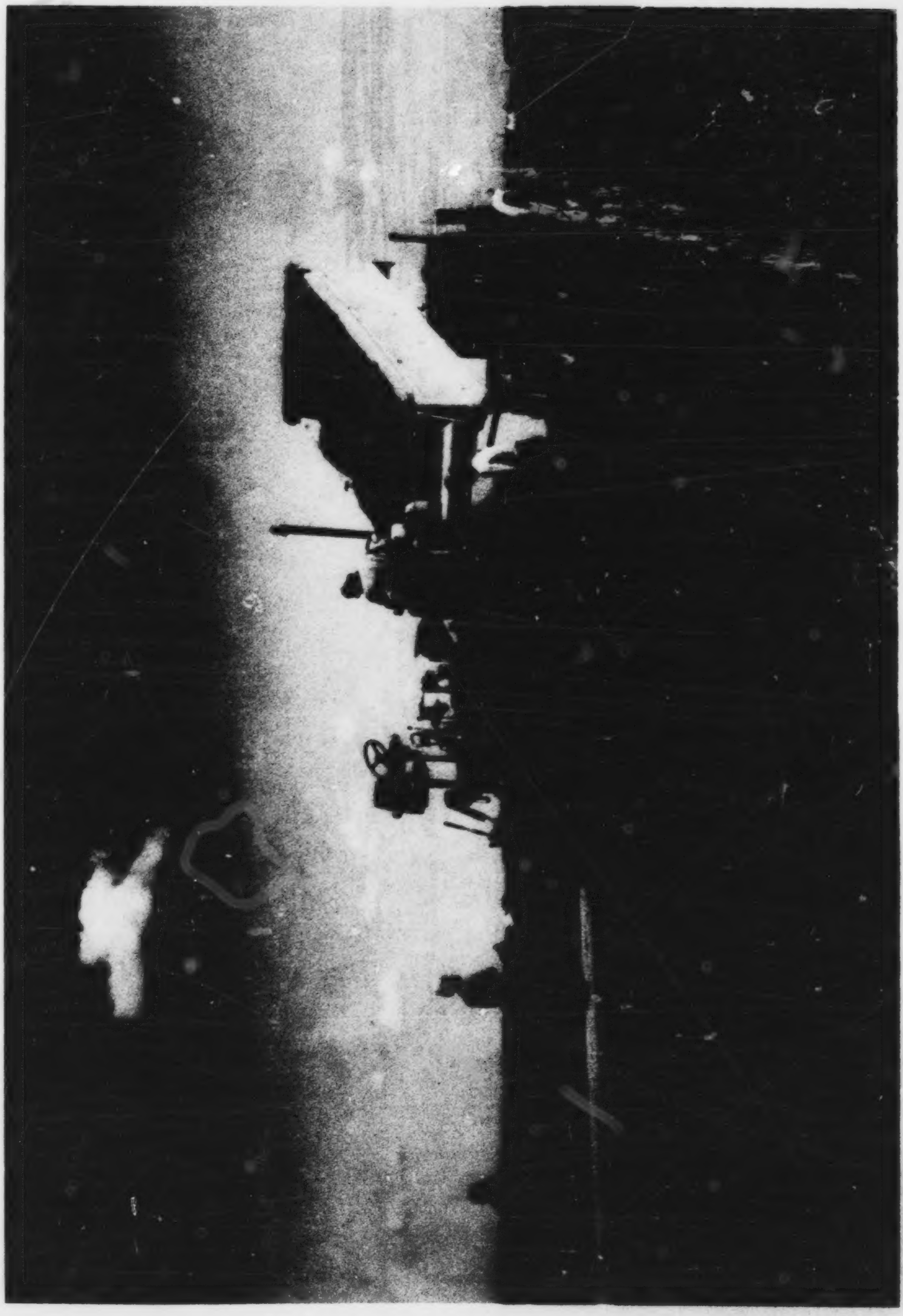
OPERATOR TRAINING PROGRAM

Two full-time operator trainees are employed to up-grade personnel in operating procedures and equipment maintenance.

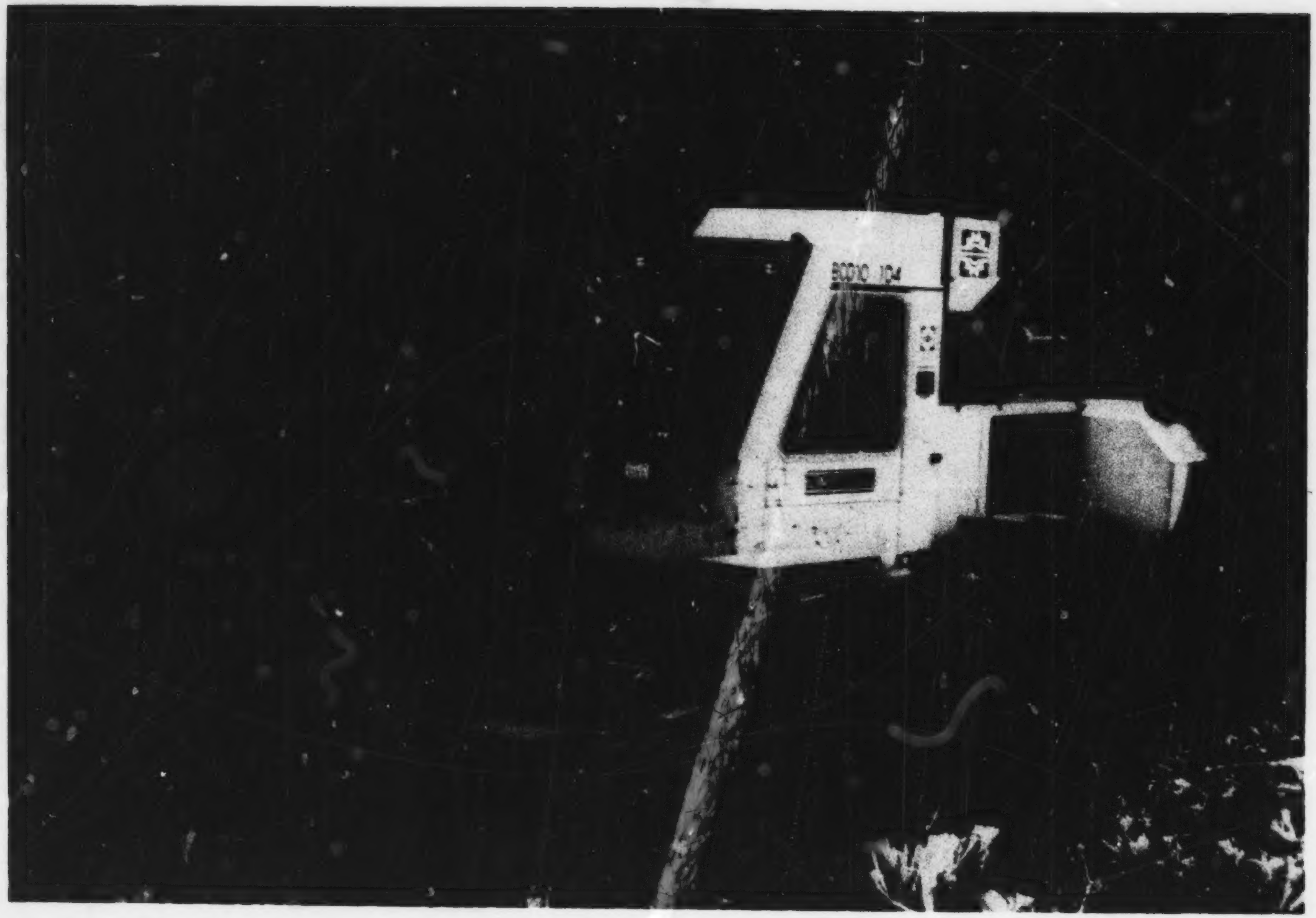
BUILDINGS

Mechanical Equipment Services personnel administered a building program for erection of the following buildings:

Swan River - New Shop	15.2m x 25.6m
Beausejour - Cold Storage Building	12.1m x 15.2m
Birtle - 2 Bay Snowplow Storage Building	10.9m x 15.8m
Virden - 2 Bay Snowplow Storage Building	10.9m x 15.8m
Wawanesa - 2 Bay Snowplow Storage Building	10.9m x 15.8m



Paving on P.T.H. No. 10, from Peace Gardens north to Boissevain



Brush Cutter mounted on muskeg tractor

AIR SERVICES

Air Services operates and maintains a fleet of fifteen fixed wing aircrafts, providing the following services to the various Departments and Agencies of the Government:

- general transportation of Government personnel and freight
- emergency medical evacuation flights for the Northern Patient Transportation Program
- forest fire detection, and fire suppression by water bombing
- transportation of Court parties and Mineral Resources' field parties
- support and assistance to the Emergency Measures Organization
- aerial photography
- enforcement patrols during hunting and fishing seasons
- wildlife census patrols

The Air Services fleet is utilized throughout the Province year round, and is authorized by Transport Canada to operate under day and night Visual Flight Rules and Instrument Flight Rules. The three main bases are Winnipeg, Thompson, and Lac du Bonnet, with seasonal operations handled from the Grace Lake Base at The Pas.

Flight Agents located at the main bases, co-ordinate air transportation requirements for Government personnel, ensuring full utilization of Government owned aircraft.

All Air Services pilots receive annual ground and flight training, with multi-engine crew members undergoing annual proficiency tests and instrument rating renewals conducted by Transport Canada Inspectors.

All qualified pilots on the Cessna Citation aircraft attend Flight Safety International for recurrent and simulator training, and pilots of the CL-215 water bombing aircraft, undergo annual programmed ground and flight training in-house.

Single engine aircraft pilots receive annual ground and flight training from senior staff, with recurrent training conducted at the commencement of float operations and again at commencement of wheel/ski operations.

Routine aircraft service and maintenance is conducted at the three main bases, with major inspections, overhaul and repair of the multi-engine aircraft handled from the Winnipeg base. Major overhaul and repair work on the single engine aircraft is carried out at the Lac du Bonnet facility.

The multi-engine aircraft operated by Air-Services consist of:
3 Canadair CL-215 water bombers
1 Cessna Citation
1 Piper Navajo Chieftain
1 Piper Aztec
1 Cessna Skymaster 337

The single engine aircraft operated by Air Services are:
2 DeHavilland DHC-3 Otter
5 DeHavilland DHC-2 MKIII Turbo Beaver
1 DeHavilland DHC-2 Beaver

Flights were well distributed between the Departments, with Fire Management, and other resource related programs accounting for 28% of the Air Services flights, with a total of 431,448 km, an increase of 12,539 km from the previous year.

The Northern Patient Transportation Program also increased their utilization from the previous year, to 424,656 km, or 27.6% of the total Air Services flight distance. The Department of Highways and Transportation was the third largest user with 11% of flight distance and a total of 164,558 km.

Air Services, in consort with Manitoba Health Services Commission selected a Cessna Citation SII aircraft as a dedicated aircraft for the air ambulance program. The aircraft was ordered in November 1984 for delivery in the summer of 1985 and will be specifically configured with an air ambulance interior. Air Services will operate the aircraft for Manitoba Health Services Commission on a full cost recovery basis.

During the early summer of 1984, Hangar T-5 at Winnipeg was leased and the CL-215 water bombers operated from this renovated facility. Heavy maintenance on these aircraft was conducted for the first time during the winter season. Because of the availability of proper facilities, aircraft did not have to be flown to Canadair Ltd. in Montreal for major maintenance as had been the procedure in the past.

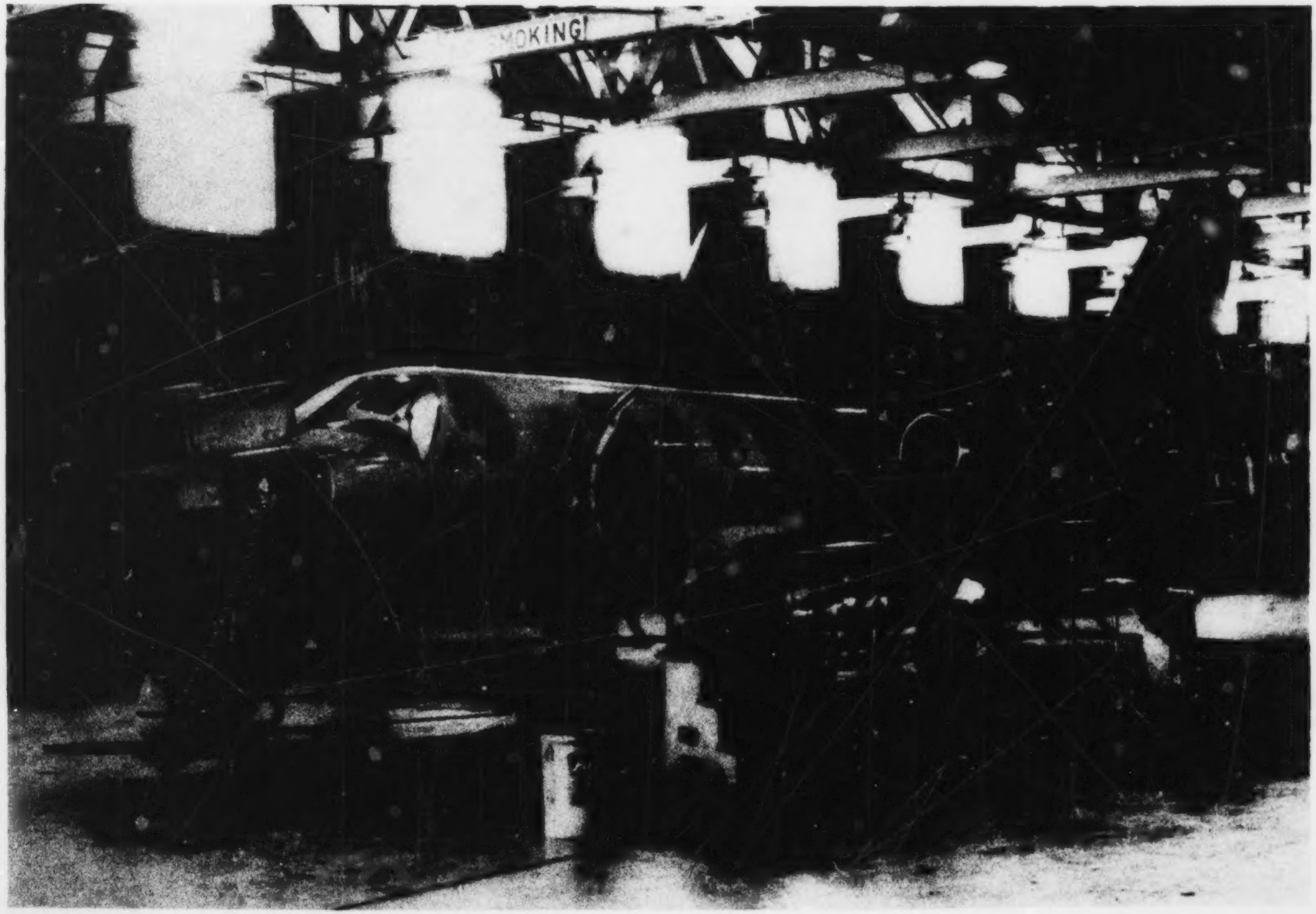
The Federal Provincial-Cooperative Supply Agreement was finalized which will see the Province lease one CL-215 from the Federal Government in May 1986 and the purchase of another in March 1988. These aircraft will form part of the National Air Tanker Fleet.

Air Services received notice from the Federal Department of Transport that the facilities of Hangar T-127 Winnipeg International Airport will no longer be available after April 1, 1986 and planning action commenced to consolidate the total Air Services operations at Winnipeg to Hangar T-5.

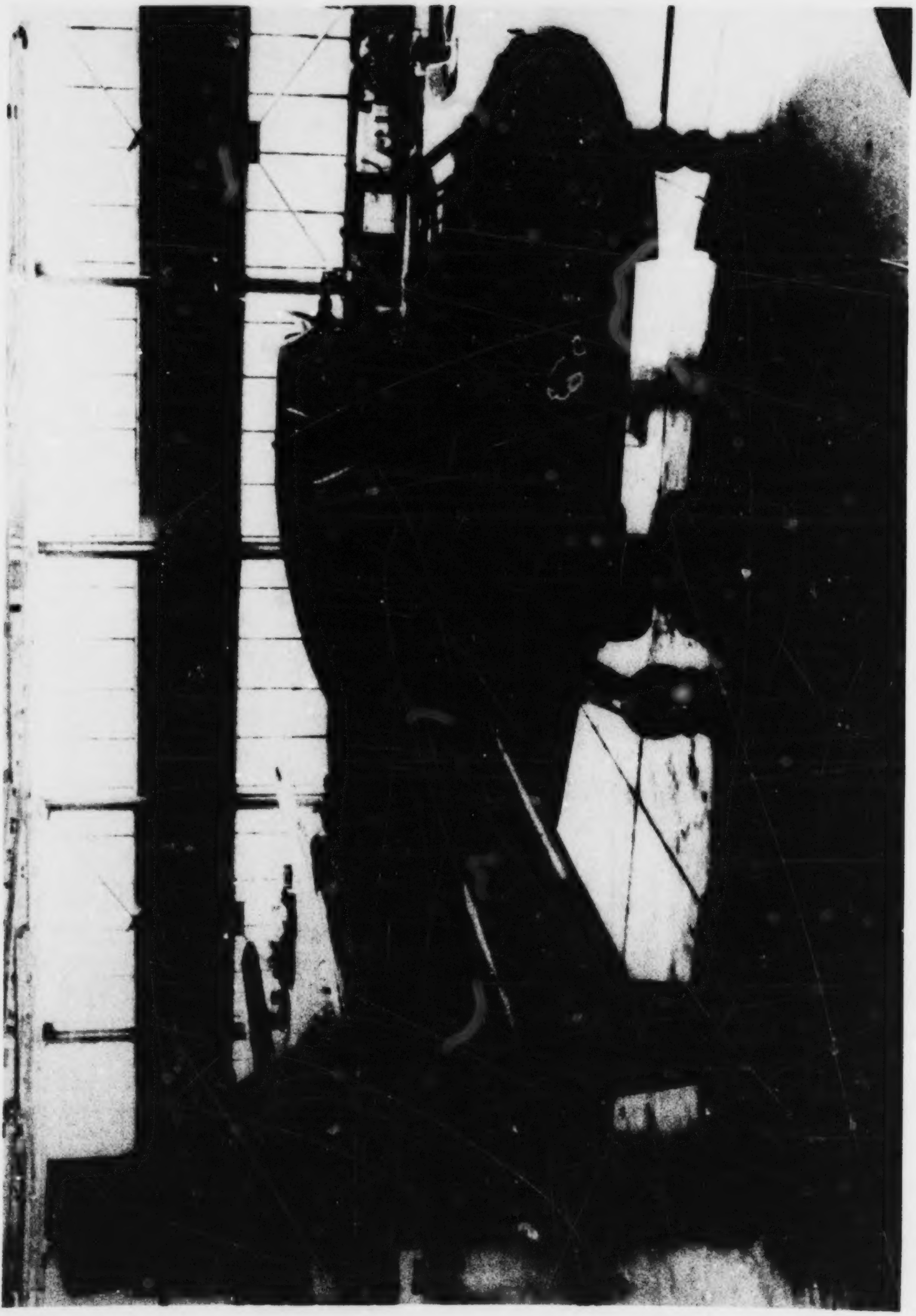
As at March 31, 1985 Government Air Services has flown a total of 45,042,520 km since its inception in 1932.

Air Services performed the following:

	83/84	84/85		
Total Flight Hours	5,453	5,817	Increase	364
Total Distance Flown (km)	1,362,072	1,537,091	Increase	175,019
Total Passengers Carried	6,931	7,731	Increase	800
Total Freight Carried (kg)	707,800	220,021	Decrease	487,779



Cessna Citation, C-GBNE, undergoing a major maintenance inspection in hanger T-127, Winnipeg International Airport



Water Bomber inside hanger T-5, Winnipeg International Airport

RADIO SERVICES

The Radio Services section of the Department of Highways and Transportation co-ordinates the radio communication requirements of the Manitoba Government under the guidance of the Radio Communications Committee and under the regulation of the Federal Department of Communications. It operates four well equipped radio shops and four radio service vehicles. The repair and installation shops are located in Winnipeg, Thompson, Dauphin and Lac du Bonnet.

Regular service trips are made from Dauphin to The Pas and Brandon monthly. In addition, service trips are made to important radio sites, and bi-annually to airports and radio beacon sites.

The computerization of the radio inventory was delayed by staff turnover and illness but will go ahead as time and talent permits. Equipment delivery and installation for the "shared user" radio system in Northern Manitoba was accelerated toward the end of the year. Problems of radio coverage are being worked out by the Manitoba Telephone System and the Federal Department of Communications, and should be resolved within a year.

Specifications were drawn up for a "portable repeater system" for emergency forest fire and flood use and majority federal funding was obtained. Equipment was delivered on schedule in March and an operating test was completed. This system will operate independently from any established system.

The shared user system was expanded by the addition of the "Sheriffs and Baliffs" to the system in Northern Manitoba and is also being further expanded by covering the Brandon, Boissevain, Melita, Rosenfeld and Portage la Prairie areas. This led to a Canada-Manitoba meeting and will result in a Federal Department of Communications radio frequency plan which will be co-ordinated with the United States covering all sites south of 50° latitude.

The "portable repeater system" will have some innovations new to Manitoba. As well as repeating signals from hand held radios giving more area coverage, an aircraft radio is mounted in the repeater package. This aircraft radio can be switched into the system by any Government aircraft or applicable hand held radio and direct communication between water bombers, helicopters and the fire foreman on the ground will be possible.

Five portable repeater kits, each complete with 16 hand held radios will be available for forest fire emergencies in Manitoba.

Radio equipment and applicable accessories were purchased for installation in an Emergency Measures communications trailer. This emergency command center will have a high power audio system to cover the immediate area surrounding the trailer. It will have the latest state of the art, two way radio communications systems able to co-ordinate Provincial Natural Resources, Provincial Fire, Provincial Ambulance and Police Communications, as well as aircraft and General Radio Service (CB) systems. Equipment installation commenced in March, 1985.

Work was started on a back-to-back "Portable Repeater Extension System". This system when completed will be set up in wilderness areas, such as Moose Lake or Paint Lake to extend the Northern radio system into areas not now covered. The system will be wet battery operated and charged with solar panels.

In Northern Manitoba the installation of the radio control panels was completed at all northern airstrips. Radio beacons which assist the navigation of aircraft over Manitoba wilderness areas were maintained in operating condition and new installations were made at Pukatawagan and Lac Brochet.

Installation of new radio equipment for Highways District 10 and the Sheriff's Office was in progress at year end. The low band radio network in The Pas - Snow Lake - Flin Flon area is being removed for re-installation in Southern Manitoba.

A great deal of effort and planning went into strengthening the Natural Resources radio system at Bird's Hill for the Papal Visit. A communication trailer was equipped on site and this served to co-ordinate all the emergency systems users. These were "Emergency Health Services", "The Fire Commissioner" and "Highways and Transportation" as well as police.

The Winnipeg radio technical staff were very busy with radio installations in new vehicles but managed to upgrade the antenna systems at some Department and Transportation repeater sites.

The Lac du Bonnet shop developed a series of modifications to existing radio beacon installations which could greatly improve the reliability of this equipment. Authority was obtained to implement these modifications as time and funding permit.

The purchases, write offs and inventory consolidation are expected to develop as follows:

	Planned 84/85	Actual 84/85	Planned 85/86
Station	308	390	390
Mobile	1,092	922	979
Portables	1,083	736	789
Boats	6	6	6
Aircraft	51	51	52
	2,540	2,105	2,216
Inventory Consolidation		400	400
		2,505	2,616

MATERIALS AND RESEARCH

The major functions of the Materials and Reseach Section include the laboratory testing of all types of highway-related materials, preparation of mix designs for asphaltic and portland cement concrete pavements, the soil and grade survey drilling program, structural designs for new and upgraded highways, location of new gravel sources and updating the inventory of know sources. A large part of the workload continued to be in the area of providing advice and assistance to the Districts on inspection and quality control on construction projects, and adherence to specifications.

The activities of the various groups within the section are presented below.

SURFACING GROUP

Quality control assistance was provided on a regular basis to all paving and some gravel base course projects. In addition, technical assistance and advice was given and will continue to be given to the districts on the design and production of MC-500 bituminous patching mixes.

Approximately 515,000 tons of bituminous mix were placed requiring 15 mix designs. Thirteen mix designs were run on MC-500 bituminous patching mixes. Fifteen base and A.S.T. projects were monitored. Approximately 65,750 lineal feet of concrete curb and gutter and 100,000 sq. yds. of concrete pavement were placed requiring 11 mix designs.

In co-operation with the specification review committee, the following specification changes were implemented,

a) A new field laboratory specification was developed.
b) An interim specification for concrete aggregate was developed.
c) A new concrete curb and gutter specification was developed.
d) A new specification for the supply of asphalt products was developed.

A mobile quality control unit was outfitted and used on the major concrete projects resulting in better control in the field.

The Surfacing Group was heavily involved in the Project Supervisor's Training School this year. Assistance will continue to be given to this program in the future.

SOILS AND RESEARCH GROUP

GEOTECHNICAL

1. A site investigation was conducted at a major unstable side hill area on P.R. No. 482 (approx. 5.6 km S. of P.T.H. No. 5). An elaborate berm consisting of 100,000 cubic yards of fill was designed to counteract impending failure. A slope inclinometer was installed to monitor movement location and rate.
2. A backslope failure on P.T.H. No. 5 at Grandview was found to be due to seepage from the water supply reservoir. This was rectified by the installation of an interceptor trench drain and the inclusion of a granular slope drain in the restored backslope.

3. A preliminary site investigation conducted for the proposed relocation of P.R. 359 (thru the Birdtail Creek Valley) concluded that glacial till and hard Odanah shale would be encountered in the cut areas and that groundwater would not be a problem. Recommendations were provided for the design of safe backslopes in the cut areas and stable grade slopes for the major fill areas.
4. A "bucket wheel" trenching unit was evaluated on the installation of a 1.85 m deep subsurface plastic drain system on P.T.H. 45 (0.5 km W. of P.T.H. 10).
5. A slope stability analysis was conducted at a grade slope failure on P.T.H. No. 1 East at the Symington Overpass. A counterbalance berm was designed to stabilize the area.
6. A reconnaissance survey for the proposed relocation of P.R. 201 between Brown and Snowflake was conducted to assess preliminary drilling requirements.
7. A stabilization research project on P.R. 238 along the Red River at St. Andrews was completed and a final report was submitted to the ARC Authority. Slope inclinometer and piezometer monitoring was conducted on a regular frequency.
8. A new automatic self-activating subsurface dewatering pump was installed on P.R. 482 in the SE ¼ of Sec. 18-25-29W to curtail renewed slope movements.
9. The monitoring of slope indicators was continued on P.R. 478 at Binscarth, P.R. 259 at Virden, and P.R. 305 at Hood Bridge.

CULVERT INSPECTION

The inspecting of culverts at manufacturer's plants was limited to evaluating corrugated steel pipe which were greater than 900 mm in diameter and to all arches. Fifty-six separate plant inspections were conducted for 25 of the 53 corrugated steel pipe purchase orders; plant inspections were not conducted for the 3 reinforced concrete pipe orders.

Observations were made on nine projects which involved the new culvert placement specification. A report on these installations was submitted to the specification committee for their consideration.

GRADING

General Quality Control and Engineering Assistance was provided for 38 grading projects and one lime modified subgrade project. Soil compaction was monitored by nuclear density gauges on 26 grading projects and by sand cone equipment on 4 other projects.

Two technical papers; one entitled "Compaction Testing Technology", the other "Compaction of Highway Embankments and Subgrades", were written and presented at a compaction seminar sponsored by the Winnipeg Branch of the Canadian Geotechnical Society.

The drilling summary for subgrade evaluation by the B-30 drill truck is appended.

TRAINING

Developed and presented four 3-day field testing and lab procedure training sessions for 56 grade and density inspectors.

RESEARCH

1. Continued the project to reduce reflective cracking by placing synthetic fabrics prior to asphaltic overlays. A Tensar (polypropylene) geogrid was placed on P.T.H. 10 south of Boissevain in July of 1984. The evaluation of a geotexile (Penroad 150) installed 4 years ago is undergoing continued observations.
2. A study was conducted to determine the benefit of incorporating quicklime to a low organic clay subgrade on P.T.H. 26.
3. Commenced the preliminary investigation for R.T.A.C. "Highway Transportation Information Study (HITRIS)" regarding such factors as: frequency and costs of resurfacing as well as age at resurfacing.
4. Compiled preliminary data and undertook literature search for pavement management study involving the derivation of traffic equivalency factors for both flexible and rigid pavements, and to determine pavement inventory data requirements.

GRANULAR RESOURCE GROUP

The activities of the Geotechnical Section were continued as in previous years in the exploration and investigation for potential granular material sources, maintenance of the inventory of existing gravel pits, and evaluation and review of Crown Land Development Plans.

This year through the acquisition of a 4-wheel All-Terrain-Vehicle, many of the less readily accessible aggregate deposits can be reached for testing and evaluation. After one field season the machine became a valuable asset to this section on account of its durability and ability to traverse through swamps and snow covered terrain with ease. A number of new gravel sources were found which would otherwise not be discovered without the use of this ATV.

Similar to the agreement signed last year with the Wildlife Branch on exploration and extracting granular materials from Wildlife Management areas, another agreement has been reached with the Provincial Forest Branch for testing in Provincial Forests. Joint projects on pit rehabilitation with Wildlife, Forest and Mines Branch were planned.

Close working relationships were maintained on reviewing and evaluation of Crown Lands Development with our Planning, Design and Land Survey Branch and input was supplied to Municipal Planning Boards. Complete listing of Development Plans reviewed and Planning Board input will appear in the Planning, Design and Land Survey Branch's 1984-85 Annual Report.

The group's activities resulted in the following:

1. Estimated quantity of new gravel discovered	35,000,000 m^3
2. Gravel pits inspected	950
3. Potential sites investigated	330
4. Samples processed	1,692

MATERIALS TESTING LABORATORY

A summary of samples processed may be found in table No. X6.

A. CONCRETE/SOIL CEMENT CYLINDERS, CORES AND CUBES

I.	FIELD CYLINDERS			
	a.	Highways		
	i)	Pavement	359	
	ii)	Curb & Gutter	443	
	iii)	Buildings	41	
	iv)	Soil Cement	59	
	v)	Other	0	
			902	902
	b.	Bridge Office	909	
	c.	Government Services	130	
	d.	Natural Resources	185	
	e.	Concrete Exchange	12	
	f.	Other	1	
			1,237	2,139
II.	LAB CYLINDERS			
	a.	Highways	52	
	b.	Bridge Office	101	
	c.	Other	0	
			153	2,292
III.	CONCRETE CORES			
	a.	Highways	0	
	b.	Other	10	
			10	2,302
IV.	CUBES			
	a.	Grout	23	
	b.	Cement Test	0	
			23	2,325

B. AGGREGATE SAMPLES

a.	Concrete Aggregates	157			
b.	Bituminous Aggregates	290	(262)*		
c.	Gravel Survey	798			
d.	Base Course	324	(449)		
e.	Seal Coat	56	(20)		
f.	Pit Run and Traffic Gravel	102	(149)		
		1,727	(880)	4,052	(880)

C. SOIL SAMPLES

a.	Soil and Grade Surveys	6,933	(1,621)		
b.	Other Soils	271	(65)		
		7,204	(1,686)	11,256	(2,566)

*Figures in brackets are Brandon Laboratory Tests

D. BITUMINOUS SAMPLES

I.	ASPHALT MIX ANALYSIS				
a.	Field mixes	574	(136)		
b.	Lab mixes	28			
c.	Hammer calibration	48	(28)		
		650	(164)	11,906	(2,730)
II.	ASPHALT CORES	642	(30)	12,548	(2,760)
III.	OIL SAMPLES				
a.	Paving projects	267			
b.	District maintenance	42			
c.	Seal coat crews	101			
d.	Others	32			
		442		12,990	(2,760)

E. MISCELLANEOUS SAMPLES

a.	Glass beads	104		
b.	Traffic paint			
i)	Production batch samples	41		
ii)	Acceptance	0		
c.	Concrete			
i)	Water	8		
ii)	Air entraining agents	0		
iii)	Curing compounds	4		
iv)	Joint sealants	0		
v)	Cement	8		
d.	Sand Density Calibration	0		
e.	Traffic Cones	0		
f.	Flyash	2		
g.	De-icing salt	5		
h.	Calcium chloride solution	11		
i.	Lignosulfonates	11		
j.	Pavement marking tapes	0		
k.	AASHTO Reference materials	6		
		200	13,190	(2,760)

SUMMARY OF TESTS PERFORMED

A. CONCRETE

I.	COMPRESSION TESTS		
a.	Cylinders	2,292	
b.	Cores	10	
c.	Cubes	23	
		2,325	2,325

II.	MIX DESIGNS				
a.	Trail mixes	31			
b.	Calculated designs	3			
		34		2,359	
III.	DENSITY TESTS	67		2,426	

B. AGGREGATES

a.	Sieve analysis	1,749	(854)		
b.	Shale content	143	(709)		
c.	Crush count	302	(531)		
d.	Plasticity index	223	(567)		
e.	L.A. Abrasion	38			
f.	Specific Gravity & Water Abs.	87			
g.	Dry rodded wt.	41			
h.	Proctor	49	(50)		
i.	Moisture contents	0	(10)		
j.	Hydrometer analysis	166	(292)		
k.	Ironstone, clay ball, sandstone	3	(93)		
l.	Other tests	0	(9)		
		2,801	(3,115)	5,227	(3,115)

C. SOILS

a.	Hydrometer analysis	7,204	(1,686)		
b.	Plasticity index	7,204	(1,686)		
c.	Proctor	86	(65)		
d.	Moisture content	95			
e.	Organic content	1,878			
f.	Sulfate content	6			
g.	Other tests	12			
		16,485	(3,437)	21,712	(6,552)

D. BITUMINOUS

I.	MIX TESTING				
a.	Briquets molded and broken	2,091	(432)		
b.	Extractions	681	(136)		
c.	M.T.D.	677	(129)		
d.	Volatile contents	592	(136)		
e.	Sieve analysis				
	i) centrifuge ext.	681	(136)		
	ii) reflux ext.	138			
f.	Shale content	0			
g.	Density	2,733	(462)		
h.	Crush count	0			
i.	Core moisture content	146			
j.	Core extractions				
	i) reflux	157			
	ii) centrifuge	0			
k.	Abson recovery	22			
		7,918	(1,431)	29,630	(7,983)

II. OIL TESTING

1. Highways Lab

a. Specific gravity	21		
b. Penetration	169		
c. Kinematic viscosity	100		
d. Absolute viscosity	98		
e. Zahn cup	18		
f. Saybolt	0		
g. Distillation	38		
h. Ash	2		
i. Thin Film Oven	8		
j. Other	43		
	497	30,127	(7,983)

2. National Testing

a. Asphalt Cement, complete	44		
partial	91		
b. Liquid Asphalt, complete	21		
partial	30		
c. Emulsion, complete	37		
partial	75		
	298	30,425	(7,983)

OVERALL SUMMARY

Total number of samples processed

Brandon Lab	2,760
Winnipeg Lab	13,190
	15,950

Total number of tests performed

Brandon Lab	7,983
Winnipeg Lab	30,425
	38,408

GENERAL

Structural designs for new construction and for upgrading and rehabilitation were provided to the Districts for all current program projects and to Planning and Design Section for all advance program projects.

The section organized and managed the Benkelman Beam testing program and provided training and supervision to the District crews. Eleven crews collected 43,062 deflection readings during the testing season. This data is used by the Maintenance Engineer to establish spring axle load restrictions, and by the Assistant Materials Engineer to evaluate pavement performance and to design overlays for pavement strengthening.

Through representation on the Pavement Advisory Committee, the section is participating in the design and implementation of the R.T.A.C. Vehicle Weights and Dimensions Project. The object of the overall study is to produce a set of uniform trucking regulations that could be applied across the country, and is concerned with all aspects of truck weights and dimensions, vehicle stability and control characteristics, and pavement structure response to increased axle loadings and load distributions.

Central Lab and Surfacing Group staff continued to participate in the nation-wide asphaltic material and paving mix exchange test program, which provides a useful forum for standardizing procedures and a means of establishing confidence in lab effectiveness and credibility.

Members of staff also participated in several conferences and were active on local and national committees dealing with many aspects of highway engineering.

Manitoba Jobs Fund project on P.R. No. 239

TRAFFIC OPERATIONS

The Traffic Operations Section is responsible for the safe, convenient and effective movement of persons and goods while maintaining the orderly flow of traffic on the highway system through the utilization of traffic control devices. This section also provides traffic signs on a cost-recovery basis to operating divisions of the Department and to other provincial agencies and departments.

PAVEMENT MARKING

A. MAINTENANCE

The following summary of pavement marking maintenance includes repainting existing markings as well as painting of new markings on some 1182 kilometres of seal coated pavement.

Cost of Pavement Marking Program	$1,502,040.00
Kilometres of Centre line painted	12,616.00
Kilometres of edge line painted	4,295.00
Average cost of centre line per kilometre	62.60
Average cost of edge line per kilometre	86.53
Litres of paint applied	296,700.00
Litres of paint applied on crosswalks	2,200.00
Litres of paint applied on intersection markings	7,300.00
Average litres of paint per kilometre of pavement markings	17.54

B. CONSTRUCTION AND A/C WORKS

The pavement markings program included painting of new markings on newly constructed roads (not including AST seals) as well as work done for towns and villages, the Federal Government and other Provincial Government Departments.

C. CONSTRUCTION INSPECTION

Numerous pre-contract meetings between District personnel and contractors were attended to advise on standard signing and stress safety for road users.

Ninety-eight major construction/maintenance sites were reviewed with respect to adequacy of traffic control, maximizing safety for both the workers and travelling public.

Three seminars were held with project supervisors to review signing and flagging procedures at construction sites.

D. HAZARD REMOVAL PROGRAM

There was 806 metres of guardrail installed at the following locations to protect errant vehicles from non-removable roadside hazards (sign structures, bridge ends).

- P.R. No. 304 at O'Hanley River
- P.R. No. 304 at Black River
- P.T.H. No. 59 at Seine River Diversion
- P.T.H. No. 3 at Turtlehead Creek

- P.T.H. No. 34 at Pembina River
- P.T.H. No. 34 at Cypress River
- P.R. No. 251 at Antler River
- P.R. No. 445 at Ervham Creek (2 locations)
- P.T.H. No. 10 at Birch River

E. ILLUMINATION

Illumination was installed at the following locations:

- P.T.H. No. 16 at P.T.H. No. 34: Installed 2 - 13.7 metre wood poles with 1 - 150 W HPS luminaire on each.

- P.T.H. No. 16 at west access to Gladstone: Installed 2 - 13.7 metre wood poles with 1 - 150 W HPS luminaire on each.

- P.T.H. No. 11 at P.R. No. 304: Installed 2 - 18.3 metre wood poles with 1 - 250 W HPS luminaire on each.

- P.T.H. No. 5 at P.T.H. No. 10 (south junction): Installed 1 - 18.3 metre wood pole with 1 - 250 W HPS luminaire.

- P.T.H. No. 1 at P.T.H. No. 11: Installed 2 - 16.7 metre direct buried steel poles with 1 - 250 W HPS luminaire on each.

- P.T.H. No. 1 at P.R. No. 207: Installed 2 - 16.7 metre direct buried steel poles with 2 - 250 W HPS luminaires on each.

- P.T.H. No. 6 at P.R. No. 235: Installed 2 - 16.7 metre wood poles with 1 - 250 W HPS luminaire on each.

- P.T.H. No. 8 at P.R. No. 321: Installed 1 - 16.7 metre wood pole with 1 - 250 W HPS luminaire.

- P.T.H. No. 2 at P.T.H. No. 3: Installed 3 - 18.3 metre direct buried steel poles with 1 - 250 W HPS luminaire on each.

- P.R. No. 207 at P.R. No. 213: Installed 1 - 250 W HPS luminaire on existing wood pole.

- P.R. No. 313 at P.R. No. 502: Installed 1 - 16.7 metre wood pole with 1 - 250 W HPS luminaire on existing wood pole.

- P.T.H. No. 6 at P.T.H. No. 68/ P.R. No. 417: Installed 2 - 16.7 metre wood poles with 1 - 250 W HPS luminaire on each.

- P.T.H. No. 12 at P.R. No. 317: Installed 2 - 16.7 metre wood poles with 1 - 250 W HPS luminaire on each.

- P.T.H. No. 9 at P.R. No. 230: Installed 2 - 16.7 metre wood poles with 1 - 250 W HPS luminaire on each.

- P.T.H. No. 3 at P.T.H. No. 14: Installed 1 - 16.7 metre wood pole with 1 - 250 W HPS luminaire.

- P.T.H. No. 52 at P.T.H. No. 59: Installed 1 - 16.7 metre wood pole with 1 - 250 W HPS luminaire.

- P.T.H. No. 14 at P.T.H. No. 75: Installed 1 - 16.7 metre wood pole with 1 - 250 W HPS luminaire.

- P.T.H. No. 6 at P.R. No. 227: Installed 1 - 16.7 metre wood pole with 1 - 250 W HPS luminaire.

- P.T.H. No. 8 at P.R. No. 231: Installed 2 - 16.7 metre wood poles with 1 - 250 W HPS luminaire on each.

- P.T.H. No. 1 at P.R. No. 250: Installed 1 - 150 W HPS luminaire on existing wood pole.

- P.R. No. 240 at P.R. No. 331: Installed 2 - 16.7 metre wood poles with 1 - 250 W HPS luminaire on each.

- P.T.H. No. 9 at Riverglen Crescent: Installed 2 - 150 W HPS luminaires on existing steel poles.

- P.T.H. No. 5 at P.T.H. No. 10 (north junction): Installed 2 - 16.7 metre wood poles with 1 - 250 W HPS luminaire on each.

- P.T.H. No. 67 at P.R. No. 236: Installed 1 - 16.7 metre wood pole with 1 - 400 W mercury vapour luminaire.

- P.T.H. No. 59 at P.R. No. 311: Installed 1 - 16.7 metre wood pole with 2 - 250 W HPS luminaires.

- P.T.H. No. 6 at Twin Beach Road: Installed 1 - 16.7 metre wood pole with 1 - 250 W HPS luminaire.

- P.T.H. No. 11 at P.R. No. 307: Installed 1 - 15.0 metre wood pole with 1 - 150 W HPS luminaire.

- P.T.H. No. 5 at P.T.H. No. 50/ P.R. No. 608: Installed 3 - 16.7 metre wood poles with 1 - 250 W HPS luminaire on each.

- P.T.H. No. 9 at P.R. No. 410: Installed 2 - 16.7 metre wood poles with 1 - 250 W HPS luminaire on each.

F. TRAFFIC SIGNALS

Four complete sets of traffic signals were rebuilt in the town of Portage la Prairie, in conjunction with the "Main Street Manitoba" project. An additional signal installation was added and two pedestrian corridors were rebuilt as part of this project. The overall design was co-ordinated with Manitoba Hydro in regards to relocation of street lighting standards, combination of traffic signal and lighting standards and removal of wood poles and overhead wiring. The combined effort contributed to a less cluttered, an esthetically pleasing and relatively hazard-free Main Street.

State of the art, microprocessor based Traffic Control equipment replaced the electromechanical controllers originally installed in 1968.

The temporary installation of wood poles, guy wires and light weight Traffic signals suspended overhead at the intersection of P.R. No. 344 (Richmond Avenue) and 9th Street, in the City of Brandon, were replaced with underground cables, concrete bases and steel traffic signal standards.

New signals were installed at 1st Street and P.R. No. 344 (Richmond Avenue), also in the City of Brandon. These signals utilize fully modern control equipment, combination street lighting and signal standards, and break away bases on all median mounted signal poles.

Two temporary traffic signal installations were installed on P.T.H. No. 16 at the bridges across the Whitemud River, located west of Gladstone and east of Neepawa. The installation of these temporary signals allowed for one lane operation on the highway across each bridge, during the time that the bridges were being rehabilitated.

G. RUNWAY LIGHTING

Runway lighting was installed at the Lac Brochet, Berens River, Ilford, Pikwitonei, St. Theresa Point and Thicket Portage. These installations utilized flexible lighting fixtures, underground plastic conduits and ground fault circuit breakers to expedite maintenance repairs and improve safety standards.

These installations utilize flexible lighting fixtures, underground plastic conduits and ground fault circuit breakers to expedite maintenance repairs and improve safety standards.

H. FLASHING SIGNALS

1. Flashing red signals were added to enhance the existing stop signs at the intersections of:
   - i) P.T.H. No. 101 and P.R. No. 409 (Pipeline Road) in the Rural Municipality of West St. Paul, and
   - ii) P.T.H. No. 1 and P.T.H. No. 21 in the Rural Municipality of Whitehead.
2. Flashing amber signals were added to the "Keep Right" signs at the east and west end of the recently constructed divided highway of P.T.H. No. 1 near Oak Lake.

Upgrading traffic control messages complete with breakaway aluminum sign posts and a 10 metre setback were completed at the following locations:

1. P.T.H. No. 101 and P.T.H. No. 9
2. P.T.H. No. 101 and P.R. No. 204
3. P.T.H. No. 100 and P.T.H. No. 1E.

A testing area at the junction of P.T.H. No. 101 and P.T.H. No. 9 and P.T.H. No. 101 at P.R. No. 204 was installed to test various combinations of different types of reflective sheeting used on guide signs.

Numerous complex construction detours were designed by this office to assist the districts in traffic control through the work areas.

Pope John Paul II came to Manitoba on September 16, 1984 for an outdoor mass at Bird's Hill Park. This was the largest single traffic operations event that has ever been experienced and involved the close co-operation of the Department of Highways and Transportation, the City of Winnipeg, the R.C.M.P. and Winnipeg Police.

The Traffic Operations Section staff participated in planning for the event for 10 months and approximately $250,000 was spent on highway signs, traffic control barricades, illumination of parking lots, roads and pathways.

Several hundred sign installations, road closures and traffic signal installations were required to safely welcome and discharge the crowds associated with this event.

The Following Are Accident Statistics On The Trunk Highway and Provincial Road Systems For The Calendar Year 1984

Accident Type	1983	1984	% Change
Fatal	57	52	- 8.8%
Injury	1188	1228	3.4%
Property Damage	3919	3526	- 10.0%
Totals	5164	4806	- 6.9%
Day	2618	2699	+ 3.1
Night	2546	2107	- 17.2%
% Day	50.6%	56.2%	
% Night	49.4%	43.8%	
P.T.H.'s	65.7%	65.3%	
P.R.'s	34.3%	34.7%	

ACCIDENTS BY ENGINEERING DISTRICTS

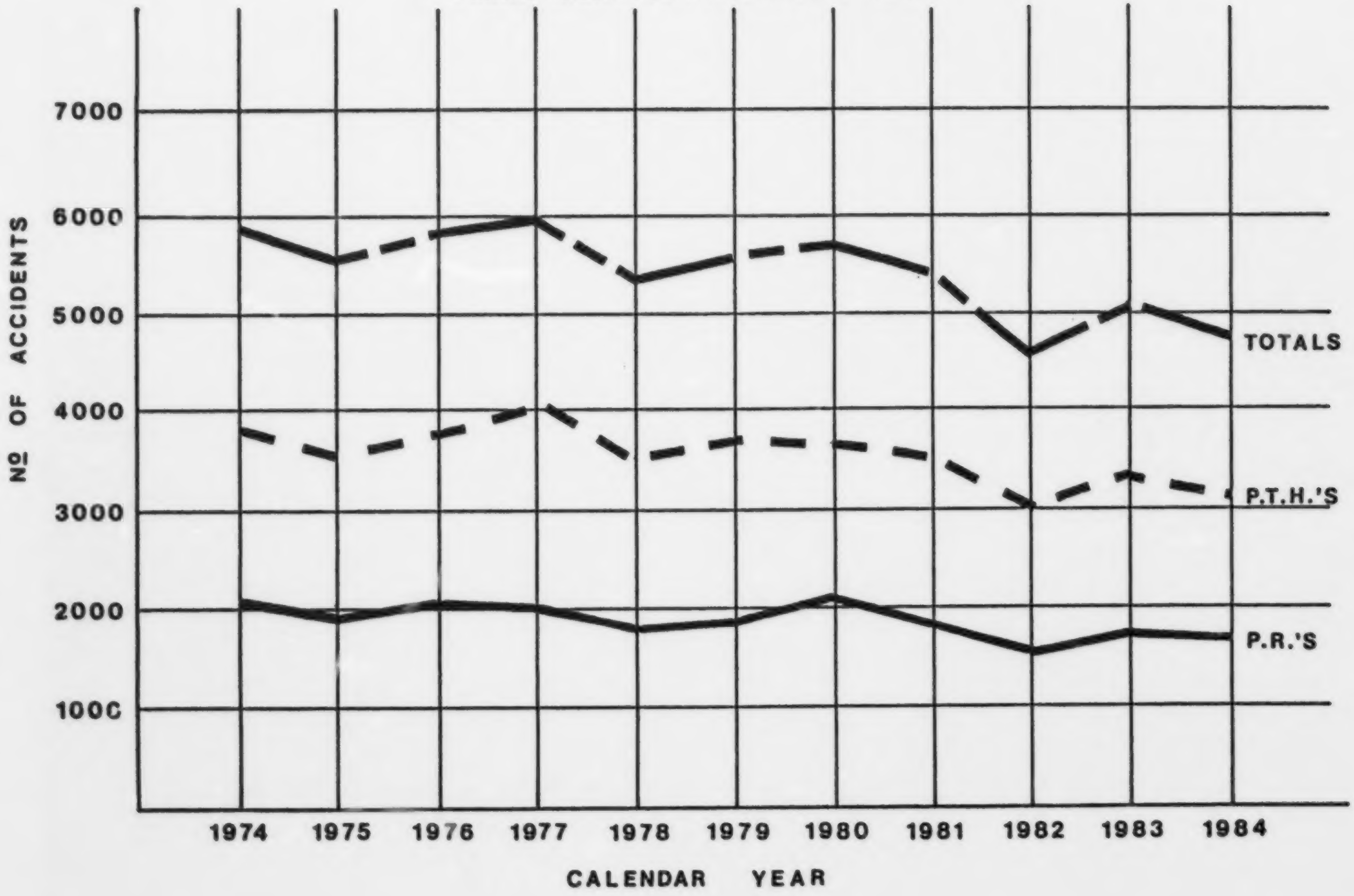
District	Fatal	Injury	Property Damage	Total
1	2	140	464	606
2	3	176	391	570
3	6	108	329	443
4	3	30	147	180
5	16	213	645	874
6	3	111	400	514
7	5	59	232	296
8	4	66	203	273
9	0	22	78	100
10	1	85	182	268
11	1	75	155	231
12	8	143	300	451
TOTALS	52	1,228	3,526	4,806

Speed Studies

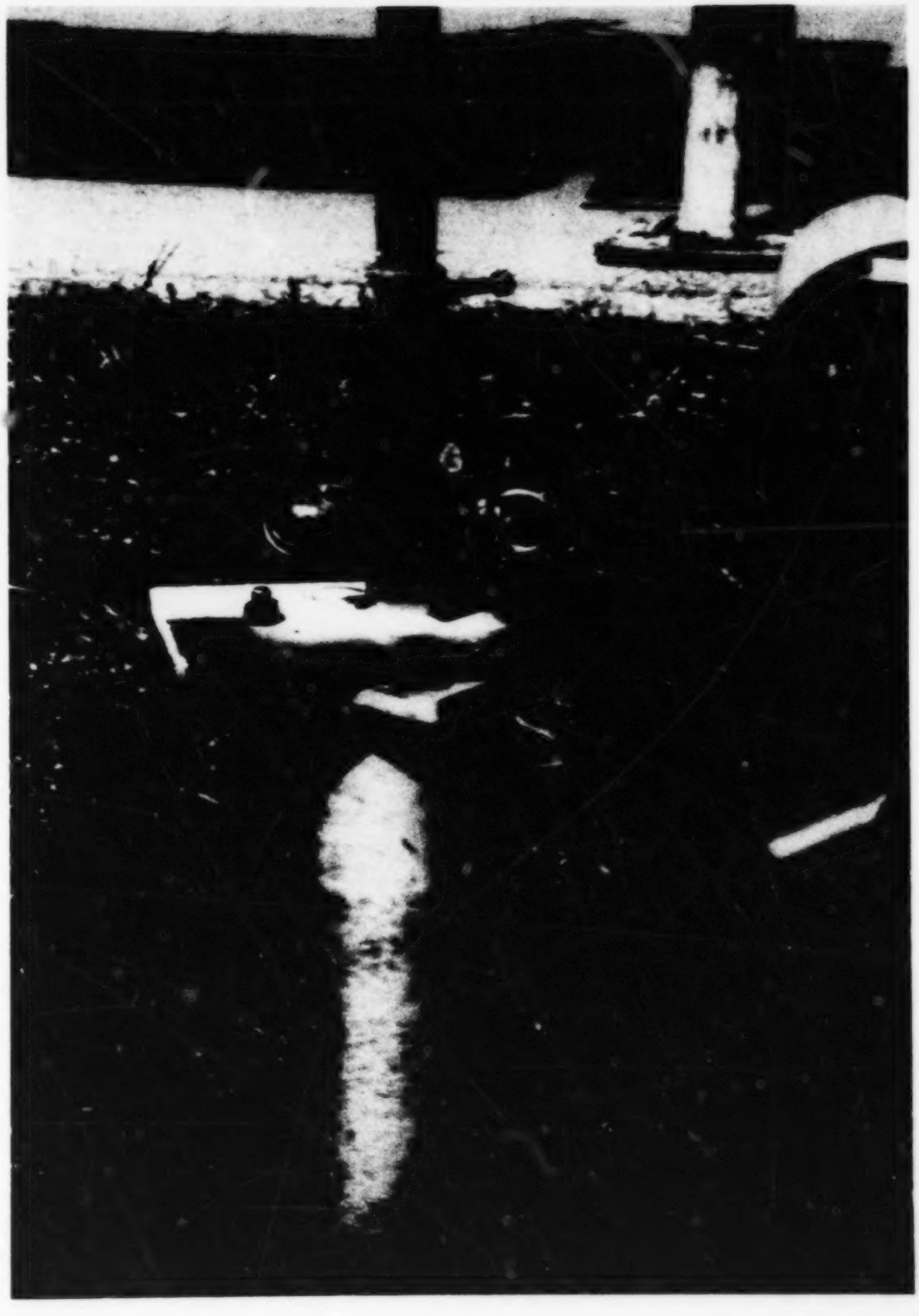
Each year, numerous requests are received from the public or towns and villages to modify existing speed limits. Each requested location is assessed in the field as to adequacy and a recommendation subsequently forwarded to the Highway Traffic Board. These speed study recommendations, where necessary, are supported by one or more radar studies. One hundred and fifty-three (153) studies were conducted this fiscal year.

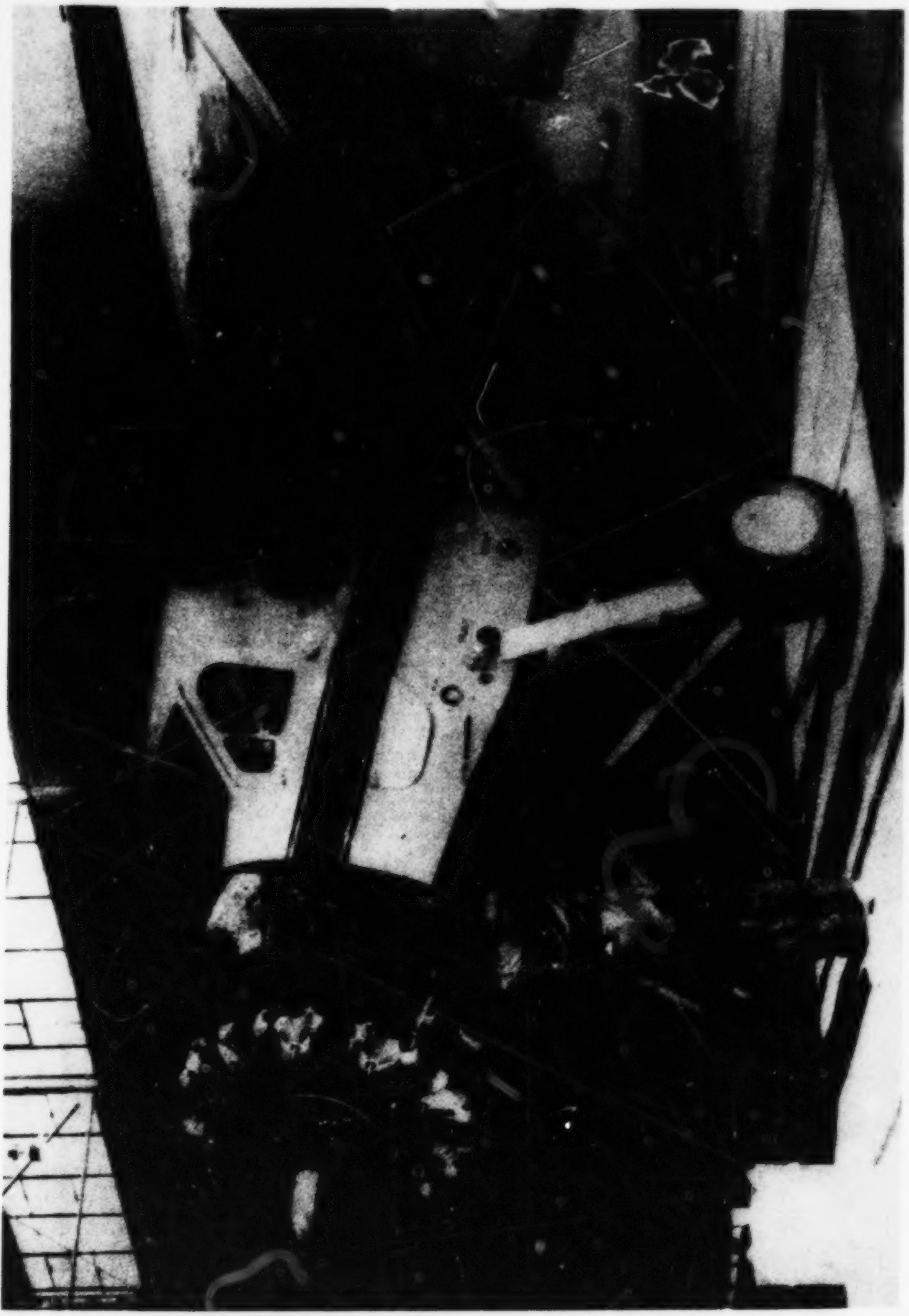
ACCIDENT HISTORY

TRUNK HIGHWAYS : PROVINCIAL ROADS



One of the innovative techniques employed by Traffic Operations is screw anchor foundations for traffic sign supports





A DeHavilland Otter, C-FMAU, being overhauled for summer operations

NORTHERN AIRPORTS AND MARINE OPERATIONS

AIRPORTS

The airport program supports the transportation needs of Northern Manitobans, particularly in remote and isolated areas.

Programs such as forest protection, medical evacuations, resource development and the tourist industry are all served through the development and maintenance of these Northern Airports.

As in the past, 28 airports and aerodromes were operated, maintained and administered, accommodating up to and including Class II Air Service at many of the locations listed:

Berens River
Bloodvein
Brochet
Cross Lake
God's Lake Narrows
Ilford
Island Lake
Lac Brochet
Lac du Bonnet
Little Grand Rapids
Norway House
Oxford House
Pikwitonei
Red Sucker Lake
St. Theresa Point
Shamattawa
South Indian Lake
Thicket Portage
York Landing

Two Licensable Airports

Grace Lake
Pukatawagan

Eight Emergency Aerodromes

Anama Bay
(Dauphin River)
Bissett
(Wallace Lake)
Cormorant
Easterville
Matheson Island
Moose Lake
Poplar River
Princess Harbour

Projects undertaken in 1984-85 year included the following:

- Terminal and equipment shop renovations at Ilford, South Indian Lake, Island Lake, St. Theresa Point, God's Lake Narrows, Cross Lake, Red Sucker Lake, Pukatawagan, Little Grand Rapids and Brochet.
- Non-directional beacons were installed at Pukatawagan and Lac Brochet.
- Firehalls were constructed at Cross Lake, South Indian Lake, Little Grand Rapids, Thicket Portage, Pikwitonei, Ilford, St. Theresa Point, Bloodvein and Shamattwa.
- Runway lights were installed at Berens River, Bloodvein, Ilford, Lac Brochet, Pikwitonei, St. Theresa Point and Thicket Portage.
- Communication equipment was obtained for ten sites enabling the department to meet Transport Canada regulations.
- Brushing was carried out at Little Grand Rapids, Thicket Portage and Cormorant.
- South Indian Lake received additional gravel.
- Conditions at the airports influenced issuing 281 notams, 563 advisories and 151 extensions.
- Weather observing and reporting at Norway House under contract with Atmospheric Environment Services Canada continues for national distribution.

- Negotiations have been finalized under contract with Atmospheric Environment Services Canada for weather observing and reporting at Berens River.

The services of airport equipment is availabale to local government at 18 communities on an accounts collectable basis. This service assists the communities in maintaining local roads as well as other services.

Airport Activity Summary	Increase Over 83/84
Total Aircraft Movements 58,847	7%
Total Passenger Movements 137,045	8%
Total Freight 9,407.5 tonnes	9%

RESOURCE ROADS

At Jenpeg and Norway House, airport staff delivered summer and winter maintenance of 108 km of road, two high-level bridges and one ice bridge. The Jenpeg/Norway House road has been declared a provincial road (P.R. 373), and as such, it will now be maintained by District 10 under the Department's maintenance program.

At Islandview/Matheson Island 6.5 km of road was maintained through arrangements with the Matheson Island Community Council using departmental equipment.

MARINE

The Department owns the following seven ferries which are operated to provide access to remote communities:

The C.F. INGEMAR CARLSON, was leased to the Matheson Island Community Council with an operational grant of $29,624.20. Service was provided from the end of P.R. No. 234 to Matheson Island.

Start-up Date	Shut-down Date
April 12/84	Nov. 14/84

The C.F. THOMAS McIVOR, was leased to the Cross Lake Indian Band with an operational grant of $30,000.00. It provides river crossing access from the Community on the west side of the lake to the commercial section on the east side. Due to the construction of a bridge at this site by the Department of Indian and Northern Affairs, this vessel will probably become surplus.

Start-up Date	Shut-down Date
June 7/84	Nov. 16/84

The C.F. JAMES APETAGON, is operated by the Department and provides access across the east branch of the Nelson River for traffic on the Jenpeg-Norway House road.

Start-up Date	Shut-down Date
April 19/84	Nov. 1/84

The C.F. ALFRED SETTEE SR., was operated by the Department providing access across the Nelson River from Pipestone Lake Crossing on the Cross Lake Road.

Start-up Date	Shut-down Date
April 13, 1984	Nov. 16/84

The M.V. CHARLIE SINCLAIR, was operated by the Department and provided access from Pipestone Lake Crossing on the Cross Lake Road, providing service across the Nelson River. In August, 1982 this ferry was replaced by the new C.F. Alfred Settee Sr. The M.V. Charlie Sinclair was in storage at Cross Lake. This vessel will be transported to South Indian Lake with an anticipated two daily runs to South Bay.

The M.V. JOE KEEPER, is operated by the Department and provides access from the Thompson to Split Lake Road to the Community of York Landing.

Start-up Date	Shut-down Date
May 30/85	Oct. 26/84

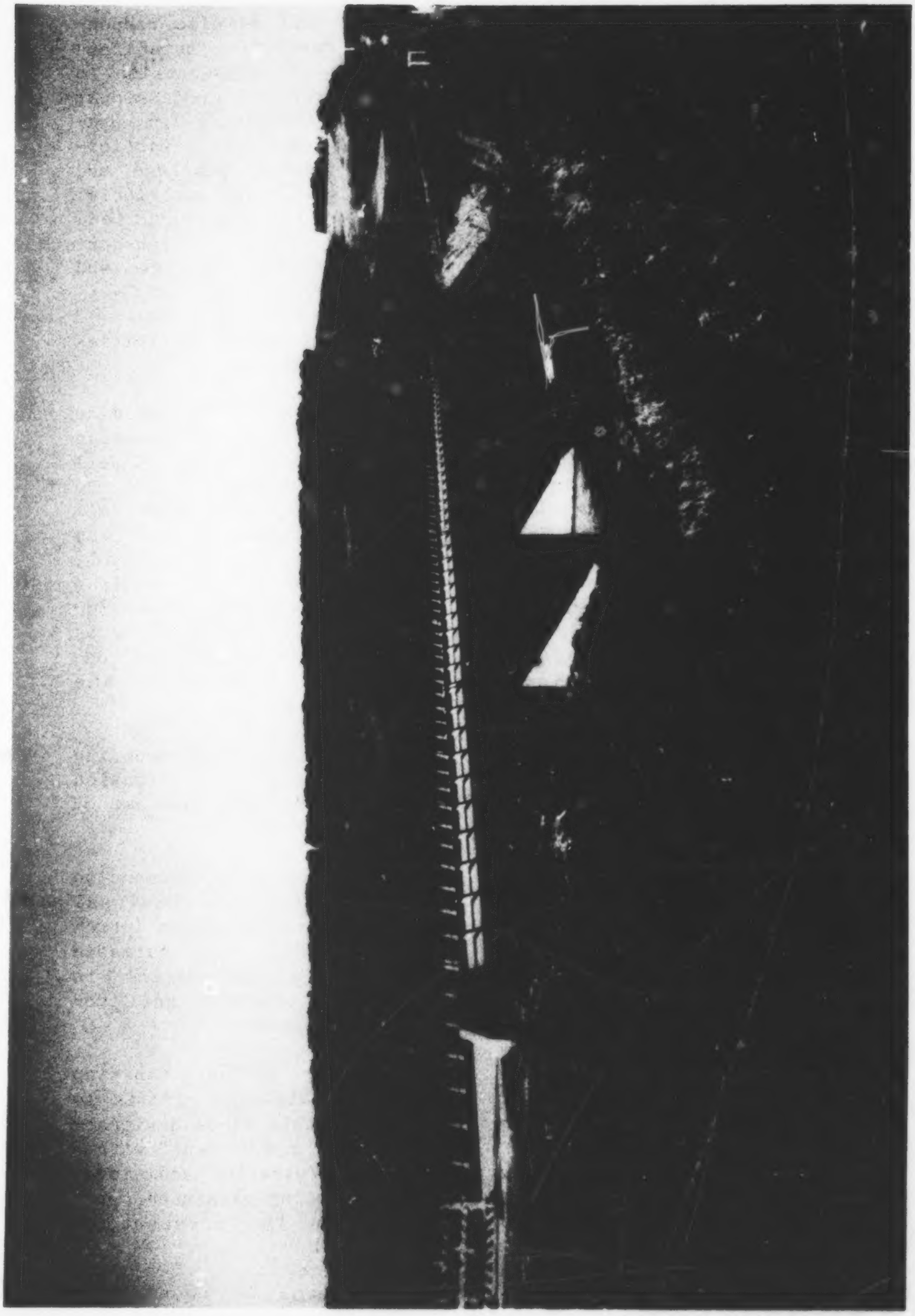
The M.V. EDGAR WOOD, was leased to Channel Area Community Services Inc. with an operational grant of $60,000.00. It provides access from P.R. No. 234 to Princess Harbour and Bloodvein.

Start-up Date	Shut-down Date
May 3/84	Oct. 28/84

SUMMARY OF FERRY TRAFFIC

Ferry	Passengers	Vehicles
C.F. Ingemar Carlson	21	8,938
C.F. Thomas A. McIvor	not reported	not reported
C.F. James Apetagon	13,460	9,067
C.F. Alfred Settee Sr.	15,932	13,952
M.V. Charlie Sinclair	nil	nil
M.V. Joe Keeper	1,579	175
M.V. Edgar Wood	939	801

P.T.H. No. 1 West of Brandon, new bridge construction



New bridge spanning the Assiniboine River

TRANSPORTATION POLICY, PROGRAMS AND RESEARCH

Transportation Policy, Programs and Research is concerned with transportation policy, research, planning and coordination. The Division deals with federal and interprovincial liaison and provides advice and support to other government departments and agencies on transportation matters.

The Division actively participates in interdepartmental committees such as those on urban transportation, energy conservation, transportation of the handicapped, statutory grain rates and physical distribution. The professional staff have participated in activities of the Canadian Transportation Research Forum, Transportation Research Board, the Roads and Transportation Association of Canada, and the Western Transportation Advisory Council.

The Division is organized in four branches - Transportation Policy, Transportation Programs, Transportation Research and Transportation Sub-Agreements.

TRANSPORTATION POLICY

The transportation policy branch is responsible for the development, coordination and promotion of policy with respect to both freight and passenger service by all modes; improving the quality and effectiveness of transportation; responding to requests from the executive, transport users and communities for information on transport issues; participating in, and evaluating federal transport policy initiatives and related agreements, studies, research and legislative activities.

The policy unit is also responsible for developing briefs and submissions for presentation to federal boards and commissions; assisting intervenors in preparing for hearings, participating in public hearings and generally defending provincial interests in transportation. Staff are active on transport related boards, councils and associations.

Grain transportation activities in 1984-85 included:

- participation in the Canadian Transportation Commission review of branch lines as well as assisting communities in service, retention and rail rehabilitation initiatives including the Oakland, Rossburn, Inwood and Winnipeg Beach subdivisions. Over 700 miles of rail line in Manitoba received some measure of upgrading activity in the 1984-85 fiscal year.

- assisting shippers in opposing the discriminatory application of rail demurrage charges on export grain shipments.

- the successful intervention against Canadian National Railways' initiative to introduce discriminatory variable grain rates prejudicial to producer, community and provincial interests.

- intervening against Canadian National Railways' efforts to have more rail lines designated as "grain dependent" with a view to preventing additional charges being assessed producers in the movement of grain.

- lobbying for improvements to the Western Grain Transportation Act commensurate with producer, community and provincial needs.

Regulatory and legislative related activities of the policy unit involved:

- assisting Churchill, Gillam, Lynn Lake, Ilford, Cranberry Portage, Thicket Portage and Wabowden in public hearings covering CN rail station agency closures. Although agents are to be removed CN was ordered to continue to provide essential services and facilities. The Manitoba submission had demanded that services and facilities must be maintained and improved.

- research, analysis and preparation of submissions on rail interswitching, collective ratemaking, impact of U.S. rail deregulation on Canadian shippers and railways, operation of cabooseless trains and commuter and urban rail legislation. This also involved active participation at public hearings and coordination with interested parties. The emphasis has been on protecting user, developmental and community needs with respect to rates, service and safety.

- submission of briefs and participation in public hearings resulting in the provision of rail passenger shelters at Roblin and McCreary. VIA Rail had attempted to avoid the responsibility of providing shelters and were found to have overstated costs of construction.

- continued assistance to Western Canola Crushers in their efforts to obtain freight rate parity for canola and sunflower products vis-a-vis those rates applying to the raw seed.

- promoting changes to the National Transportation Act to provide for developmental freight rates and redress from monopolistic rail freight rates to encourage economic development.

- defending the province's interests with respect to international maritime agreements on trade and development, exemptions for liner conferences from combines legislation and liability for damages.

- submission to, and meeting with, the Rail Passenger Action Force recommending the expansion and upgrading of rail passenger service. The report of the Action Force endorsed these recommendations. Arrangements were made to have Manitoba manufacturers bid for contracts to supply components for new equipment.

- expending considerable effort on the development of a Northern Air Service Demonstration Project. With the change of federal governments this project was tabled. The Federal Minister of Transport is not prepared to consider this program for the present.

- preparing an intervention to the Air Transport Committee regarding an application by Calm Air requesting authority to provide a service to Winnipeg from all major northern Manitoba communities.

- responding to requests from carriers for support of applications to the Air Transport Committee to expand service or to introduce new services.

- promoting Manitoba interests with respect to changes in air regulation and supporting the inclusion of The Pas and Flin Flon in the regulated zone.

- participating in proceedings before the Air Transport Committee on remote and northern air service needs. Also promoting federal support funding towards aircraft used in the provision of local services to provide for lower cost, more efficient operations. Recommendations also included streamlining redress procedure, increased federal funding towards airport improvements and the introduction of a wider range of discount fares in the north.

- hearings conducted in the 1983-84 fiscal year covering an explosion and fire caused by a runaway locomotive in the CP Winnipeg rail yard resulted in a decision in April, 1984 directing the introduction of programs to improve safety within rail terminals.

Interaction with the federal government, other jurisdictions and interest groups included:

- continued promotion of the Port of Churchill and the Hudson's Bay Route leading to the Canada-Manitoba Subsidiary Agreement on Churchill involving a number of significant initiatives to enhance the Manitoba port.

- promoting Manitoba transportation interests through active participation in the Port Churchill Development Board, Hudson Bay Route Association, Western Transportation Advisory Council, Western Ports Regional Advisory Council, Central Ports Regional Advisory Council and rail retention associations.

- promoting the re-introduction of mainline rail passenger service from Winnipeg to Vancouver through Saskatoon and Edmonton.

- participating in joint studies involving rail passenger services between Winnipeg and Northern Ontario.

- pursuing the construction of VIA Rail's maintenance centre in Winnipeg to service modern rail passenger equipment.

- promoting rail passenger service modernization and expansion with particular emphasis on Northern Manitoba.

- responding to, and participating in, a wide range of federal reports and initiatives such as the task force on deep sea shipping, regulation of freight forwarders, merchant marine feasibility, port capacity studies, and rail electrification.

The policy unit was also responsible for:

- advice on transportation policies and programs.

- appeals covering Canadian Transport Commission decisions.

- assessment of the effect of federal policies and research on Manitoba.
- briefing notes, background reports and interventions on transportation matters.
- coordination between departments on transportation policy issues.
- formulation of position papers.
- identification of existing and future problems in transportation.
- interpretation of federal transportation legislation and policies.
- the provision of analysis, technical and policy input with respect to Canada/Manitoba Transportation Subsidiary Agreement projects.
- liaison with municipalities, companies, transport users and public interest groups concerning transportation matters.
- participation in joint research projects with other agencies.
- preparation of speaking notes and media releases on transportation matters.
- responding to requests for information and assistance.
- research and analysis related to the foregoing activities.

TRANSPORTATION PROGRAMS

The branch provided programs of direct assistance to transportation in Manitoba. The program activities included:

- Providing technical information and assistance to existing and prospective industries, individuals and other government departments and agencies.
- Responding to twelve requests for industry location transportation cost data.
- Processing 40 miscellaneous enquiries for technical information.
- Assisting Manitoba firms in resolving problems of Physical Distribution, including inventory control, transportation, customer service, warehousing, protective packaging, order processing, materials handling and local delivery.
- Providing grants to agencies which make a significant contribution to the improvement of transportation services, facilities or research in Manitoba; the Port Churchill Development Board, and Hudson Bay Route Association.
- Supporting the Program for the Transportation of the Mobility Disadvantaged in Rural Manitoba, now, in its third full year of operation. This program provides grants to municipalities with transportation services for the mobility disadvantaged.

Nine new communities sponsored special transportation services. There are now twenty-two communities in the program. These are:

R.M. of Argyle	Neepawa
Boissevain	St. Pierre-Jolys
Dauphin	Selkirk
Deloraine	Souris
Emerson	Steinbach
R.M. of Gimli	Stonewall
Glenboro	LGD of Stuartburn
Hartney	The Pas
Lac du Bonnet	Thompson
Minnedosa	Winkler
Morden	Winnipegosis

Grants totalling $271,065.20 were made to sponsoring communities. These included nine start-up grants, twelve capital grants to assist in the purchase of new vehicles, five capital grants for additional passenger seats, and eleven operating grants.

- Providing construction and operation grants to 26 airports under the Southern Manitoba and the Northern Manitoba Airport Assistance Programs which have continued to be active catalysts in the expansion and upgrading of rural airport facilities.

TRANSPORTATION RESEARCH

The Branch was involved in the following research projects and activities:

- Support work for the Task Force on Motor Carrier Regulation in Manitoba was completed.

- An implementation committee was established within the Department and Transportation Research provided research support for its work. Contracts were let for studies relating to the implementation of recommendations of the Task Force. Subjects of studies included (1) a maximum rate schedule, (2) Motor Transport Board needs, (3) Effective Enforcement of Regulations and (4) the monitoring and analysis of rates. Work on drafting a White Paper on Motor Carrier Regulation Reform was initiated.

- Managing a joint federal-provincial study into the impact of rail branch line abandonment on provincial and municipal roads under the Transportation Development Sub-Agreement. The study's Terms of Reference were prepared; consultants were asked to submit bids and a consultant consortium was selected to conduct the study. The work will commence in the 1985/86 fiscal year.

- Managing and conducting a study into transportation requirements in northern Manitoba under the Transportation Development Sub-Agreement.

- Participating in preparation of government submission to the Hall Committee on Crow Benefit Payment.

- Conducting a study on barge service on Lake Winnipeg.

- Responding to requests for assistance within the Department such as the preparation of the Manitoba Highways and Transportation Strategic Program Overview and the development of terms of reference for Transportation Sub-Agreements studies.
- Responding to requests for background information on transportation matters such as the Potential for Van Feeder Services.
- Participating on the Manitoba Data Users Planning Committee.
- Participating in the Canadian Transportation Commission's Railway Cost of Capital Review.

CANADA-MANITOBA SUBSIDIARY AGREEMENT ON CHURCHILL

BACKGROUND

The current and anticipated emphasis on development of the Far North holds implications for the regional and national transportation systems, as well as for Churchill. The guarantee of a medium term future for Churchill will permit long-term developments in minerals, hydrocarbons and tourism. Churchill's popularity as a tourist centre with emphasis on the wildlife and wilderness aspects of the area is increasing. The Western Premiers have consistently stressed the importance of Churchill to the western provinces and urged federal and provincial co-operation in developing the potential of the Port. Both Canada and Manitoba have agreed on the further development of Churchill as a northern transportation centre as a priority and have acknowledged the long-term strategic importance of Churchill. Indeed, the Legislative Assembly of Manitoba agreed to a resolution in June 1983, urging that the Federal Government clearly commit itself to the upgrading and development of the Hudson Bay Rail Line and the Port of Churchill in order to fully utilize the potential of the Port.

In April 1984, the provincial and federal governments signed a $93,150,000 subsidiary agreement to develop the Port of Churchill.

DEVELOPMENT STRATEGY

The purpose of the development strategy under this Agreement is to provide the multi-modal infrastructure development which is required to stabilize the environment for the Port of Churchill. The development strategy will seek to meet the objectives of increased transportation efficiency and effectiveness; development of enhanced levels of transportation system safety; development of enhanced levels of transportation services; and development of advanced industrial technological capability in the transportation field.

Central to the strategy is an undertaking that the Canadian Wheat Board will exercise its best efforts to maximize grain shipments to the Port. This point is pivotal to stabilizing the environment of the Port of Churchill and to infrastructure improvements to the rail line, port and air facilities as well as to plan to extend hydroelectric power to Churchill. Technological initiatives, such as development of a lightweight rail car, hinges on stabilization of the environment of Churchill.

The Transportation Subsidiary Agreement provides for a comprehensive and integrated set of programs designed to achieve the objectives of stabilization and revitalization of Churchill.

PROGRAMS

The work undertaken in the Subsidiary Agreement on Churchill falls into six programs:

A. Rail Infrastructure Improvements
B. Port Infrastructure Improvements
C. Air Infrastructure Improvements
D. Provision of Hydro Electricity Facilities

E. Studies for the Development of Churchill's Potential
F. Program Administration and Communications

PROGRAM A - RAIL INFRASTRUCTURE IMPROVEMENTS

This is a contribution program implemented by Canada and jointly funded by Canada and Manitoba. The contribution will be available to CN provided CN performs the following work:

I. Railway Rolling Stock

CN will provide adequate railway rolling stock to carry 750,000 tonnes of grain to the Port of Churchill each shipping season to at least 1990.

Boxcar Rehabilitation

Up to 1,000 boxcars will be rehabilitated by CN at its Transcona shops in Winnipeg during the period 1984 - 86 to be cost shared equally by Canada and Manitoba.

CN will maintain at its expense 1,000 of its boxcars to 1990 in addition to the boxcars rehabilitated.

The average estimated cost of rehabilitating a boxcar is $26,300 (1983-84) if roller bearings are required and $16,300 if the CTC waives the requirement that 75% of the car fleet be equipped with roller bearings by 1987.

Program Status - Agreement was reached with the former Minister of Transport that Canada was to pay for the refurbishing of 360 cars with the work to be done at the end of 1984/85. Manitoba was to pay for the refurbishing of 360 cars at the beginning of 1985/86. CN applied for a waiver of the requirement that the cars be equipped with roller bearings. Because there were questions of reprofiling funds allocated for this purpose there was agreement to reconsider the boxcar refurbishing program and no work was done in 1984/85.

II. Prototype Grain Car

Due to attrition of the grain car fleet, cost of boxcar rehabilitation and inability of the Churchill line to support conventional hopper car traffic, CN will undertake the following at its own expense during the period 1984 - 86:

1. Design a prototype grain car in Winnipeg for a maximum gross weight of 220,000 pounds, maximum centre of gravity of 83 inches and a suspension system adequate for the unique track/train dynamics expected on the line to Churchill.
2. Field testing of the prototype car following its production.
3. Economic feasibility study of the manufacture and operation of a fleet of new lightweight cars based on the prototype design.

Canada and Manitoba will cost share equally the construction of the prototype car at the CN Transcona shops to a maximum cost of $300,000.

The Sub-Agreement contains a provision that should it be decided by Canada, Manitoba and CN to produce a number of the new lightweight cars in Manitoba then CN, should it be the successful bidder, will build the cars at its Transcona shops with funds that Canada and Manitoba will have allocated under the Transportation Subsidiary Agreement.

Program Status - Design work was completed this year for an articulated car which has great potential for use on light capacity branch lines and for commodities other than grain.

Construction of the Prototype grain car in CN's Transcona shops has begun. CN hopes to meet the target date for completion of the car which is June 1, 1985. Field testing of the car will then take place.

III. Railway Roadbed

A research project financed under the Branchline Rehabilitation Program had good results with roadbed stabilization techniques tested. Further geotechnical investigations must be made of discontinuous permafrost zones on the Thicket and Herchmer Subdivisions to determine more precisely the nature and extent of the roadbed foundation problems.

CN will undertake and fund the following work in 1984 - 86:

A(1) Field test ground penetrating radar at existing sites to determine whether frozen and unfrozen areas can be distinguished by employing radar techniques.

A(2) Comparative tests of the thermal performance of the cryo anchors and long thermoprobes made in Manitoba at a suitable southern site on the Thicket Subdivision to reduce data acquisition costs.

A(3) Collect and analyze data from air photography, geophysical and geotechnical surveys to determine depth and location of zones along the Hudson Bay which require thermal protection.

On completion of the above project, if Canada, Manitoba and CN agree on the usefulness of the related work, the following will be done between 1986 - 87 and 1988 - 89. The work will be done by CN and paid for by Canada:

B(1) Test installation of heat pipes on the Thicket Subdivision to confirm thermal calculations on the effectiveness of heat pipes for stabilizing permafrost in a warmer climate.

B(2) Pilot test of heat pipes on sink holes over a 2 mile section of track to determine track quality expectations after full scale installation.

Program Status - The first phase of work was contracted out in 1984/85. No test results are expected before 1986. CN has contracted with EBA Engineering for geotechnical work.

PROGRAM B - PORT INFRASTRUCTURE IMPROVEMENTS - PORTS CANADA

A contribution program funded entirely by Canada to have Ports Canada do the following:

1. Elevator Health and Safety Improvement Program

To meet statutory health and safety requirements of Labour Canada in the operation of the Churchill grain elevator and ancillary buildings, Ports Canada will undertake two programs:

a) phased-in dust control equipment improvement at an estimated cost of $5.1 million; and

b) removal of asbestos insulation in the warehouse at an estimated cost of $0.11 million.

Program Status - C.D. Howe Consultants were appointed to design the dust control system and design work was completed in 1984/85. Removal of the asbestos was also completed.

2. Dredging

The berth at the Port of Churchill will be deepened from its present depth of 10 metres to a depth of 11.6 metres at a cost of $6.1 million.

Program Status - Warthrop Cook Consultants were appointed to design dredging for the berth. Design work was completed in 1984/85 and divers surveyed the work. Work will start in late June 1985 when the ice goes out.

3. Tug Construction

Ports Canada will commission construction in Manitoba of a new 2600 hp tug boat for use in Churchill. Canada will reimburse Ports Canada up to a maximum of $3.44 million.

Program Status - Allan Consultants designed the tug and construction of the tug will begin in 1985/86.

PROGRAM C - AIR INFRASTRUCTURE IMPROVEMENTS

This program will be implemented and entirely funded by Canada.

Construction will consist of a new Air Terminal Operations building to replace the existing facilities presently located in a Transport Canada hangar constructed in 1950. It is anticipated that the work will be undertaken in 1987 - 88.

Free space will be made available in the hangar to accommodate cargo activities as required.

PROGRAM D - HYDRO-ELECTRICITY INFRASTRUCTURE IMPROVEMENTS

This program will be implemented by Manitoba and directly funded by Manitoba.

Manitoba Hydro will construct a power transmission line to Churchill by 1987 at an estimated cost of $35.59 million. The fixed nature of the extension cost to Manitoba Hydro and uncertainty of long-term customer demand poses an investment problem. To make the proposal viable, Manitoba Hydro's ten year loss position must be made the same as it would be after 10 years of diesel service.

Canada will guarantee a contribution of $12 million by way of a special rate structure whereby Federal Government users of electricity will continue to pay diesel electric rates for traditional consumption for an 8 to 10 year period.

Federal users will benefit immediately from lower grid rates for all new loads added over and above established traditional consumption figures.

Program Status - The Hydro project is proceeding on schedule. Design, route definition and clearing work on the northern half of the route has been completed this year.

Manitoba Hydro has purchased towers and insulators. Line construction will commence in the fall of 1985. Design work is underway on the Radisson and Churchill power stations.

PROGRAM E - STUDIES FOR THE DEVELOPMENT OF CHURCHILL'S POTENTIAL

This program will be funded by Canada and Manitoba.

Studies to evaluate options to preserve and expand marine and air resupply operations at Churchill and to explore ways and means of extending the season of navigation at Churchill will be undertaken. Studies will examine the long-term economic potential in resource development, tourism and resupply.

Program Status - Discussions were held with Transport Canada and a list of potential studies developed. These include: maximum utilization of existing facilities; potential for season extension; potential for import/export of commodities other than grain; potential for resupply operations; potential for expanded tourism; and marine insurance.

Preliminary work has been completed on these studies and contracting is scheduled to take place early in 1985/86.

PROGRAM F - ADMINISTRATION AND COMMUNICATIONS

Program Status - An audio-visual presentation was produced under the communications program in the 1984/85 year. This three projector presentation provides an overview of the Churchill agreement and explains each program under the agreement.

The presentation was completed at the end of March/85 and has not, as yet, been widely shown. It is intended to appeal to a variety of audiences and we hope to use it a great deal within the next few years. A one projector version as well as a videotape of the presentation is available.

CANADA-MANITOBA TRANSPORTATION

SUBSIDIARY AGREEMENTS

Financial Summary

Churchill

Total	$ 93.15 M
Federal Share	$ 38.06 M
Provincial Share	$ 55.09 M

	Federal Share			Provincial Share			
Program	Federal	CN	Ports	Prov.	Manitoba Hydro	Total 5 Years	Expended to March 31,1985
Rail Infrastructure Improvements	19.0	0.73*	-	19.0	-	38.73	.198
Port Infrastructure Improvements	3.44	-	11.31	-	-	14.75	.478
Air Infrastructure Improvements	2.8	-	-	-	-	2.8	-
Hydro Infrastructure Improvements	**	-	-	-	35.59	35.59	2.736
Churchill Studies	0.5	-	-	0.05	-	0.55	-
Administration	0.28	-	-	0.45	-	0.73	.021
							Final figures not yet available

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* Does not include other CN costs.

** Federal users to pay partial cost recovery of some $12 million through tariff agreements.

CANADA-MANITOBA SUBSIDIARY AGREEMENT ON TRANSPORTATION DEVELOPMENT

BACKGROUND

Manitoba's economy has a strong transportation orientation due both to its central location between the industrial economy in central Canada and the resource-rich provinces to the west and its early dependence on the transportation intensive agriculture sector. The industry has a diversified presence, including Crown Corporations, private commmon carriers and direct government operations. Aside from the direct provision of jobs within the industry itself, transportation service levels affect the competitiveness of most goods, and many services. Finally, the quality of life in more remote parts of the province is directly affected by the availability of transportation services, with its impact on consumer prices and access to medical and other services.

In April of 1984, the federal and provincial governments signed a $137,660,000 subsidiary agreement aimed at developing a long-term transportation plan for Manitoba's future. Both Manitoba and Canada have available the analytical and statistical resources required for in-depth analysis of the provincial transportation system and of a variety of concerns related thereto. The rapid growth of the highway mode affords the opportunity of making improvements to the highway infrastructure. Similarly developments in trade and travel patterns offer opportunities for development of the infrastructure of the air mode. Finally, Manitoba interest in and need for provision of access to remote communities affords the opportunity for development of a Rail Bus prototype.

DEVELOPMENT STRATEGY

The objectives of the transportation development sub-agreement are to:

1. provide for the joint planning and analysis taking into account factors and trends influencing the transportation system and that will allow each level of government to act within its area of jurisdiction while having regard to a joint development framework;

2. improve or adjust the air and highway transportation infrastructures to meet development needs;

3. enhance the technological research and development, and management science capabilites in Manitoba related to transportation.

The strategy will be implemented through a coordinated federal-provincial management structure that will draw advice from the transportation industry, municipal authorities and the affected general public. The management system will also ensure that implementation of projects under this Agreement will be coordinated and consistent with other closely linked initiatives, such as the IRDP Program, the Western Transportation Initiatives, the Winnipeg Core Area Agreement and the Northern Development Agreement.

The city of Winnipeg is a major focal point for the programming and planning that this Agreement provides. Infrastructure improvements will be made at the Winnipeg International Airport. Additionally, transportation-related measures will be undertaken to augment the research and development capacity at the University of Manitoba.

In rural Manitoba, planning and analysis activities will be undertaken to manage the process of change led by the evolution of the transportation system, and to improve the province's major interconnecting highways, where necessary.

PROGRAMS

The work undertaken in this agreement falls into seven programs.

A. Manitoba Transportation System Analysis
B. Transportation Industry Development Advisory Committee
C. Transportation Institute at the University of Manitoba
D. Air Infrastructure Improvements
E. Highway Infrastructure Improvements
F. Rail Passenger Services
G. Program Administration and Communications

PROGRAM A - MANITOBA TRANSPORTATION SYSTEM ANALYSIS

This program will assess the dynamics and functioning of the Manitoba transportation system in order to identify inadequacies which may impinge upon transportation efficiency and determine transportation related opportunities in support of future economic development needs.

Should additional funding become available, other studies could be undertaken.

The focus of work on this project has been on known or potential problem areas, rather than having one large, unfocused study which would not lead to an action plan.

The following study areas have been identified:

a) Highway Impact Study

This study will estimate the fiscal impacts on the federal and provincial governments resulting from the abandonments of rail branch lines. It will also examine the consequential need to upgrade and maintain the provincial and municipal roads serving the new rail line configuration to ensure an efficient grain transportation system. This is the highest priority and is specifically mentioned in the Sub-Agreement.

Program Status - the contract for this study has been awarded to ADI/E.M. Ludwick. The first meeting has taken place between the contractors and the Steering Committee and work is now in progress.

b) Seatbelt/Helmet Study

A study to evaluate the effects of recently introduced seatbelt/helmet legislation in Manitoba.

Program Status - This study is to be done under contract by the University of Manitoba.

c) Northern Manitoba Study

A northern Manitoba passenger and freight study to examine a number of interlocking transportation concerns and examine potential investment trade-offs.

Program Status - A Working Group has been formed with representation from Highways and Transportation, Northern Affairs, Natural Resources and Transport Canada. Terms of Reference have been drafted and consultation on them is continuing. Data gathering has started.

d) Regional Airports

A study to produce a plan for the orderly and rational development of regional airports in Manitoba.

Program Status - The northern portion of this study has been integrated into the northern Manitoba study outlined above. The southern portion of the study will be held in abeyance pending clarification of the Transport Canada schedule for completion of the Manitoba Airports Master Plan.

e) Intercommunity Bus

A feasibility study of the potential for intercommunity rural bus services including interlining with mainline facility and trade-offs with other government expenditures.

Program Status - This feasibility study is being done inhouse. A recommendation has been made that a demonstration project be carried out in the Waterhen - Crane River - St. Rose du Lac - Dauphin area. This demonstration would have to be funded outside the subagreement, logically by Community Services and federal departments to whom the financial savings would accrue.

f) Monitoring Analysis and Planning System Study

A definition study for a transportation monitoring, analysis and planning system.

Program Status - IBI Group has been awarded the contract for this study. Work on Phase I of this project has been completed and work is continuing.

g) Network Applications

A study of the potential uses of computerized transportation networks in a wide range of applications in the Manitoba transportation system.

Program Status - Terms of Reference are being drafted and will be completed when the results of the MAPS study are available.

h) Multi-modal Terminal Study

A study to determine the feasibility of establishing a multimodal terminal for the intercity bus, rail, local bus and transit services with the existing CN station being considered as a possible site.

Program status - All agencies involved in the study have responded favourably to the Terms of Reference. This study is ready to go to contract.

i) Impact of Deregulation

A study to assess the impact on carriers and shippers and the consequences for freight transportation services in Manitoba resulting from changes in the regulatory environment for the motor carrier industry.

Program Status - A Working Group has been formed and Terms of Reference have been drafted.

PROGRAM B - TRANSPORTATION INDUSTRY DEVELOPMENT ADVISORY COMMITTEE

This program will be implemented by Manitoba and jointly funded by Canada and Manitoba.

A high level committee will be established to examine and define an action program for both private and public sectors bearing on the future of Winnipeg as a major national transportation related industry centre and to examine other issues affecting the long-term development of the transportation system.

Originally Canada was to be the implementing jurisdiction for this program but the management committee decided that it would make more sense for Manitoba to fill that role.

A technical amendment to the sub-agreement has been made in order to allow this change.

Mr. Arthur Mauro has been appointed Chairman of the committee. The Federal Minister of Transport has confirmed the federal nomination of Mr. Andison and added Marshall Rothstein and Ross Smith. The provincial nominees are R. Painchaud, R. Siemens and R. Cerilli.

This committee did not meet in 1984/85. The work of this committee will begin within 1985/86.

PROGRAM C - TRANSPORTATION INSTITUTE UNIVERSITY OF MANITOBA

This program will be implemented by Manitoba and jointly funded by Canada and Manitoba.

Program Status - the building site has been selected and a sod turning ceremony was held on October 6, 1984 during the visit of Her Majesty Queen Elizabeth II.

No further work has been done on the site. Substantial changes have been made to the architects' plans. The architects have presented their final concept drawings to the University of Manitoba Board of Governors for approval.

Manitoba is contributing $1.2 million for program development. The Institute has a nucleus of staff and is now preparing research and study proposals, course outlines, etc.

PROGRAM D - AIR INFRASTRUCTURE

This program will be implemented and entirely funded by Canada.

The proposed program has identified airport facility expansion, e.g. runways, aprons, area control centre, etc. at Winnipeg International Airport and other Manitoba sites such as Thompson and Brandon.

Program Status - No work was scheduled for 1984/85.

PROGRAM E - HIGHWAY INFRASTRUCTURE IMPROVEMENTS

This Program will be implemented and entirely funded by Manitoba.

In order to facilitate interprovincial trade utilizing highway modes, Manitoba will undertake a number of highway infrastructure projects designed to improve road capacity and safety.

Program Status - There was no activity scheduled for 1984/85. A number of projects on major trucking routes have been selected for implementation over the next three fiscal years. The projects for 1985/86 are:

1. Highway No. 1 - West Boundary R.M. of North Cypress - East 8.0 miles. Bituminous recap and paved shoulders (eastbound lanes) - 1.500 million.
2. Highway No. 10 - Through Boissevain, 1.1 miles. Excavate, base and bituminous pavement (urban section) - .800 million.
3. Highway No. 12 - West of P.T.H. No. 89 - P.R. No. 402, 11.3 miles. Base and bituminous pavement - 2.500 million.
4. Highway No. 75 - P.R. No. 429 - South, 5.2 miles. Base, concrete, pavement, signing and landscaping (additional lanes) - 4.663 million.

Total Estimated Cost $9.463 million.

PROGRAM F - RAIL PASSENGER SERVICES

This program will be implemented by Canada and funded by Canada and Manitoba and will be closely coordinated with the Winnipeg Core Area Agreement.

Two complimentary programs will be undertaken:

a) Development and testing of a prototype Canadian rail bus vehicle, suitable for use on light density remote rail passenger route, with the objectives of improving the accessibility of remote communities to regional service centres and reducing operating and capital cost of rail passenger services. A further objective is the development of a rail product for export purposes.

Program Status - The rail bus was tested on Greater Winnipeg Water District railway track. Following yard tests a field run was undertaken to Shoal Lake. All technical work has been completed on the rail bus.

b) This program will provide for the possible role of the Winnipeg Railway Station as a multi-modal centre including general improvements to the station, painting and repair of the rotunda and concourse, integration of ticket and baggage handling facilities, a new public address system and train information board, repair and landscaping of the parking lot.

Program Status - Work was started in January, 1985 and should be completed by the end of the calendar year. There is a feasibility study on the use of the Winnipeg Railway Station as a multi-modal terminal included in the joint studies to be conducted under Program A - Transportation Analysis.

CANADA-MANITOBA TRANSPORTATION

SUBSIDIARY AGREEMENTS

Financial Summary

Transportation Development

Total	$ 137.66 M
Federal Share	$ 111.61 M
Provincial Share	$ 26.05 M

	Federal Share		Provincial Share	Total 5 Years	Expended to March 31,1985
Program	Federal	CN			
Transportation Analysis	0.2	-	0.2	0.4	.039
Advisory Committee	0.9	-	0.9	1.8	-
Transportation Institute	5.8**	-	5.8	11.6	.460
- CN R+D	-	1.25	-	1.25	-
- Development	-	-	1.2	1.2	.300
- Operating	-	-	1.4	1.4	-
Air Infrastructure Improvements	101.68	-	-	101.68	4.237
Highways	-	-	16.0	16.0	-
Rail					
- Station	1.0	-	-	1.0	.070
- Railbus	0.5	-	0.05*	0.55	.195
Administration	0.28	-	0.5	0.78	.023
					Final Figures not yet available

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* The province is willing to provide an additional $150,000 in future contributions.

** 0.8 from Secretary of State.

DRIVER AND VEHICLE LICENCING DIVISION

The Driver and Vehicle Licencing Division is responsible for the administration of driver licencing, vehicle registration and driver and vehicle safety programs.

MANAGEMENT SERVICES AND SYSTEMS

Management Services and Systems organizes the collection, storage, transmission and processing of data. This objective is achieved through the effective use of operating procedures and computer technology.

Financial and Administrative Services

Financial Services collects, accounts for and distributes Government revenues from licencing and insuring both drivers and vehicles. It disburses and accounts for expenditures incurred by the Driver and Vehicle Licencing Division, maintains financial records for the purpose of budgetary planning and provides revenue and expenditure analysis reports to management on a regular basis. The section provides a financial support function to ten programs within the Driver and Vehicle Licencing Division, seven Branch offices and in excess of 200 Driver Licence Agents.

Administrative Services provides an administrative support function to ten Driver and Vehicle Licencing programs and seven Branch offices.

Training

The training and development of Driver and Vehicle Licencing Division staff is provided by the Training Section. Seminars on "Dealing with the Public" on the point system are examples of the types of workshops organized by this section. The section is also responsible for the development and updating of Divisional publications and procedural manuals.

In meeting the requirements of the Workplace Safety and Health Act, the Training Section is responsible for the development and administration of a Divisional Safety Program.

Research and Statistics

The major objective of Research and Statistics is to collect, maintain and analyze statistical information relative to the Driver and Vehicle Licencing Division. This is accomplished through the conducting of studies and through the provision of information/reports to management, government departments, the general public and external agencies.

Motor vehicle accidents in 1984 numbered 32,548 with a total of 112 fatal accidents resulting in the loss of 127 lives. Snowmobile accidents numbered 73 and involved 2 fatal accidents, while a total of 348 bicycle accidents involved 3 fatal accidents.

Seatbelt and helmet legislation became effective in the Province of Manitoba on January 1, 1984, and was actively enforced effective April 1, 1984. This legislation made the wearing of these devices mandatory unless exempted for medical reasons.

Under the auspices of the Manitoba Traffic Safety Committee, surveys of shoulder belt utilization rates were conducted in April 1983, February 1984 and June 1984.

In the June 1984 survey, 79.0% of drivers in vehicles observed were wearing shoulder belts, compared to 33.5% in February 1984 and 10.7% in April 1983. The seatbelt utilization rate in June 1984 was thus more than double the February 1984 rate.

A study on the effectiveness of seatbelt legislation is currently being conducted by the Accident Research Team headed by Dr. W. Mulligan (University of Manitoba). The study is jointly funded by Transport Canada and the Manitoba Public Insurance Corporation. Initial survey results are expected to be released in September, 1986.

SAFETY

Driver Improvement and Control

The basic function of the Driver Improvement and Control Program is to provide rehabilitation or impose suspensions in order to remove hazardous drivers from the roads. The program is progressive and individuals are provided with many opportunities for rehabilitation. Where control action is warranted, the driver may be placed on probation or may be referred for driver examinations or a Defensive Driving Course.

The Driver Improvement and Control Section also administers the Alcohol and Drug Abuse Program. All drivers who are convicted of a second or subsequent offense pursuant to Section 234, 234.1, 235 or 236 of the Criminal Code of Canada are required to attend an Impaired Driver's Course at the Alcoholism Foundation of Manitoba. Upon completion of this course, a report is submitted by the Alcoholism Foundation of Manitoba to the Driver and Vehicle Licencing Division, where appropriate departmental action, either returning the suspended licence or continuing the suspension, is taken.

Driver Records and Suspension Section

The maintenance of driver records is an operation which involves not only the compilation of driving infractions, but also the monitoring of subsequent records. This function is performed by the Driver Records and Suspension Section.

Medical Records

The primary objective of Medical Records is to establish a system for the review of a driver's fitness to safely operate a motor vehicle.

Based on medical information and medical standards, drivers may be requested to take driver examinations and/or appear for an interview, have restrictions placed on their driver's licence, or be referred to the Manitoba Rehabilitation Centre for a medical assessment. Modifications to a driver's motor vehicle may be recommended. In more serious cases, drivers may have their driver's licence cancelled or declassed for failing to meet medical standards. Drivers may appeal the Division's decision to the Manitoba Medical Review Committee.

A total of 29,460 requests for medical examinations were issued, as a result of which 956 cancellations were issued.

Motor Vehicle Inspections

Motor Vehicle Inspections carries out the mechanical safety inspection of vehicles; primarily passenger cars and light trucks, in accordance with standards prescribed, monitors the safety standards of components and accessories sold for use on registered vehicles and supports other divisions of the Government respecting vehicle standards.

Of the 42,252 vehicles initially inspected in 1984, 14,977 passed inspection on the first attempt, 26,651 failed, while the remaining 624 were determined to be of such hazardous condition that immediate suspension of registration resulted.

Driver Education

Driver Education administers the Provincial High School Driver Education Program and maintains responsibility for the supervision of all Commercial Driving Schools, their instructors and training vehicles.

Since the fall of 1981, when the Dauphin-Ochre School Area No. 1 was legislated to conduct on a pilot basis, the first expanded 15½ year old driver education courses, there have been an additional 43 school divisions and districts inducted into the program.

In 1984, a decision was made to have a substantial portion of the costs of the High School Driver Education Program funded by the Manitoba Public Insurance Corporation, since the Corporation receives a benefit from the program. The total cost of an individual student's course was $160.00 of which $110.00 is contributed by the Manitoba Public Insurance Corporation, $30.00 by the student and $20.00 by the Division of Driver and Vehicle Licencing.

During the 1983-84 school year, a total of 6,568 students completed driver education courses through the 104 high schools participating in the program.

Driver Testing

The primary responsibility of Driver Testing is to examine applicants to determine whether they have the necessary knowledge, skill and ability to safely operate a motor vehicle.

In 1984, there were 45,157 road tests given in the original testing program and an additional 7,003 road tests were administered as part of the Division's Driver Improvement Program. Total written and oral knowledge tests administered in both programs numbered 110,251.

Snowmobile and Bicycle Safety

The Manitoba Snowmobile Operator's Training Program and the Manitoba Bicycle Safety Training Program are the responsibility of the Snowmobile and Bicycle Safety Section. The section administers the Snowmobile Act and those sections of the Highway Traffic Act pertaining to the use of bicycles and mopeds. It consequently reviews and assesses Traffic Accident Reports falling within these jurisdictions.

The Manitoba Snowmobile

Operator's Program is available to all interested citizens in Manitoba, on a correspondence basis. During the winter of 1983-84, 3,531 individuals participated in this program.

The Bicycle Safety Training Program, based upon the Canada Safety Council's Safe Bicycling Course, is designed to teach children aged six to thirteen years to properly ride a bicycle. At the same time it provides them with the knowledge to recognize and avoid hazardous traffic conditions.

The Bicycle Safety Program is offered to elementary schools in Winnipeg, Selkirk, Brandon and Thompson, either through provision of a fully trained instructor to interested schools for a one-week period, or through offering instructional materials to schools for presentation by a faculty member. In 1984, 32,831 individuals were instructed in this program.

LICENCING

The basic objective of Licencing is to establish, co-ordinate and maintain acceptable procedures for the issuance of driver licences in accordance with provisions established under the Highway Traffic Act, the Manitoba Public Insurance Act, related regulations and departmental policy.

Total active drivers in 1984 numbered 594,100 and the total monthly average of suspended drivers was 24,139.

Dealer Inspection

Dealer Inspection is responsible for the development and administration of a program regarding licencing and control of automobile dealers, salesmen and automobile wreckers in accordance with the Highway Traffic Act, Regulations and departmental policy.

During the year 1984, 3,490 dealer plates, 801 salesmen's permits and 614 dealer permits were issued.

Information Centre

The Information Centre, maintains an information retrieval system providing information on vehicle registrations and driver's licences.

Vehicle Registration

Vehicle Registration establishes and maintains systems and procedures designed to register and licence motor vehicles, trailers and snowmobiles in accordance with the Highway Traffic Act and related Acts and Regulations. The program initiated in 1982, to introduce personalized licence plates for Class A1 passenger vehicles, has proven very successful. To date, 7,760 sets of personalized plates have been manufactured.

Vehicle registrations in 1984 totalled 767,953; commercial vehicle registrations 25,971; and snowmobile registrations 37,543.

THE HIGHWAY TRAFFIC BOARD

The Highway Traffic Board was established in 1960 and is responsible for the administration of the Highways Protection Act, the Snowmobile Act and portions of the Highway Traffic Act.

The members are appointed by Order-In-Council and are from various backgrounds. The staff consists of a Board Secretary, an Administrative Officer and two Administrative Secretaries.

Hearings are normally held in Winnipeg, Brandon and Dauphin. Occasionally hearings have been scheduled for other locations such as Neepawa, Minnedosa and The Pas and all combine on-site inspections. In addition the Board meets with representatives from other jurisdictions on matters of mutual concern.

THE HIGHWAYS PROTECTION ACT

The primary function of the Board is to prevent encroachment onto or in the Control Areas of the Provincial Highway System which could make further expansion of the highways costly if not administered properly. A draft amendment to the Highways Protection Act has been submitted to the Minister's office dealing with Off-Premise Advertising Signs. If it is enacted it should result in more effective control over highway encroachment thus making the highway safer for the travelling public.

THE HIGHWAY TRAFFIC ACT

The Board is responsible for the administration of portions of the Highway Traffic Act which consist of traffic control devices, establishment of speed limits, approval of pedestrian corridors, and approval of municipal by-laws respecting highway reclassification, weight limits and bridge restrictions.

Speed limits are approved or denied based on the results of Board investigations, technicial information and recommendations supplied by the Provincial Traffic Authorities.

Pedestrian/School Corridors are considered and approved by the Highway Traffic Board from the information received from the requesting authorities and on-site inspections.

The Pedestrian/School Corridor Traffic Control Devices were modified to include two flashing amber beacons, mounted on top of each corridor control device and are activated by a pedestrian pushing a button at either end of the corridor or the centre divider.

SNOWMOBILE ACT

The Board is responsible to approve municipal by-laws establishing routes and locations where snowmobiles may be operated on or across the highways.

Activities Comparative Summary for 1983 and 1984;

HEARINGS	1983	1984
Winnipeg	29	44
Brandon	8	10
Dauphin	8	6
Other Locations (R.M. Offices-Specials)	—	3
Show Cause	1	3
Additions (Special)	--	--
Totals	46	66

APPLICATIONS	1983	1984
Structures & Access	322	406
Speed Limits	30	85
Pedestrian Corridors	10	8
Advertising Signs	63	164
Traffic Control Devices	5	5
By-Laws	--	2
Snowmobiles (Routes)	--	2
Totals	430	672

PERMITS ISSUED/APPROVED	1983	1984
Structures and Access	235	287
Speed Limits	30	53
Pedestrian Corridors	10	8
Advertising Signs	45	81
Traffic Control Devices	4	5
By-Laws	1	1
Snowmobiles (Routes)	—	—
Totals	325	435

DENIED/CANCELLED	1983	1984
Structures and Access	36	38
Speed Limits	5	14
Pedestrian Corridors	--	--
Advertising Signs	18	34
Traffic Control Devices	--	--
By-Laws	--	--
Snowmobiles (Routes) & By-Laws	--	2
Cancelled	15	19
Totals	74	107

DEFERRED FOR FURTHER INVESTIGATION

Structures and Access	23	62
Speed Limits	3	18
Pedestrian Corridors	--	--
Advertising Signs	5	49
Traffic Control Devices	--	--
By-Laws	--	1
Snowmobiles (Routes)	--	--
Totals	31	130

REGULATIONS FILED	9	13
ON-SITE INSPECTIONS	16	48
PUBLIC UTILITY BOARD HEARINGS/DECISIONS	6	8

THE LICENCE SUSPENSION APPEAL BOARD

The Licence Suspension Appeal Board was established by legislation in 1959. At the present time, Section 252 and 253 of the Highway Traffic Act (H.T.A.) provides the authority, jurisdiction and procedures of this Board.

The primary function of The Licence Suspension Appeal Board is to hear appeals of individuals who have had their driver's licences suspended. The Highway Traffic Act further provides for the Board to hear appeals of suspensions, cancellations and denials of Driving School Permits, Driving School Instructor Permits, Automobile Dealer Permits and Salesmen Permits. The Board's jurisdiction also encompasses Court Suspensions under the Highway Traffic Act and Juvenile Court Suspensions when authorized by that Court.

The Board imposes restrictions on licences where remission is granted and full remission is authorized in special circumstances only. The Licence Suspension Appeal Board's decisions are final. The Statutory Right of Appeal, against decisions of the Appeal Board, to County Court, was abolished July 1st, 1984.

As of July 1st, 1984, when County Court was abolished, this Board elected to sit three members to form a quorum at each hearing. The new practice of three members attending every hearing has resulted in a marked increase in operating expenditures during the last six months of 1984.

The Board consists of a Chairman (Winnipeg), Vice-Chairman (Leaf Rapids), and Board Members residing in Brandon, Ochre River, LaBroquerie, Fort Alexander, Lockport, Petersfield and Winnipeg (3). When scheduled, all members attend hearings in all locations. The Board schedules hearings in Winnipeg, Brandon, Dauphin, The Pas, Thompson, Beausejour and Steinbach.

The majority of applications are processed in Winnipeg, with regular hearings held in Brandon, Dauphin, Beausejour and Steinbach and only as needed in The Pas and Thompson.

In 1984 there was a 4 percent increase in total number of applications received - 155. There was a decrease of 232 applications received under the mandatory (238 H.T.A.) suspensions and a substantial increase of 359 applications received as a result of suspensions imposed by the Registrar of Motor Vehicles (246 H.T.A.).

A total of 213 applications were cancelled for reasons such as the Board having no jurisdiction or individuals withdrawing their applications. Waiver of fee was granted in three cases as provided under Section 253(3) of the Highway Traffic Act. As of December 31st, 1984, there were 110 applications being held in abeyance pending various documentation. This would appear to be a normal carry-over from year to year.

Description of Suspensions

(1) Section 238 Highway Traffic Act

Statutory suspension imposed automatically on convictions of a Criminal Code of Canada offence.

(2) Section 246 Highway Traffic Act

Suspension imposed by the Registrar of Motor Vehicles on review of driving record.

(3) Section 238 Highway Traffic Act & 246 Highway Traffic Act

Combination of above two convictions.

(4) Court Suspension (Highway Traffic Act)

Suspension imposed by Court on Highway Traffic Act convictions.

(5) Probationary Licence - 23-13 Highway Traffic Act

Suspension imposed by the Registrar of Motor Vehicles arbitrarily to probationary drivers involved in accidents and/or convictions.

(6) Refusal to issue by Registrar

Refusal to issue Salesmen Permits, Driving School Permits and Driving Instructor Permits by Registrar.

SUMMARY OF APPLICATIONS
The Licence Suspension Appeal Board
January 1, 1984 to December 31, 1984 inclusive

Total Applications Received - 4,044
Total Hearings Held - 338

Disposition of applications by type of suspension:

(1)	Section 238 Highway Traffic Act		
	Restricted remission	1,890	
	Full remission	144	
	Application denied	283	
	Sub Total		2,317
(2)	Section 246 Highway Traffic Act		
	Restricted remission	1,099	
	Full remisssion	3	
	Application denied	132	
	Sub Total		1,234
(3)	Section 238 & 246 Highway Traffic Act		
	Restricted remission	12	
	Full remission	0	
	Application denied	2	
	Sub Total		14
(4)	Court Suspension Highway Traffic Act		
	Restricted remission	7	
	Full remission	0	
	Application denied	0	
	Sub Total		7
(5)	Probationary Licence Suspension		
	Restricted remission	77	
	Full remission	0	
	Application denied	11	
	Sub Total		88
(6)	Out of Province Suspension		
	Restricted remission	7	
	Full remission	0	
	Application denied	3	
	Sub Total		10
(7)	Miscellaneous		
	Refusal to issue by Registrar	0	
	Applications pending	110	
	Applications cancelled	213	
	Suspensions expired	51	
	Sub Total		374
		TOTAL	4,044

MEDICAL REVIEW COMMITTEE

The Highway Traffic Act empowers The Medical Review Committee (comprised of qualified medical practitioners) to conduct hearings dealing with individuals whose driver's licences have been suspended, restricted, cancelled or otherwise refused issuance of a drivers's licence by the Registrar of Motor Vehicles because they did not meet certain specific medical standards.

The Medical Review Committee, upon hearing appeals, determines whether the standards as set out by the Canadian Medical Association and encompassed in Manitoba Regulation 61/75 are judged in a fair and equitable manner and whether an exception to the rule may be made. The Medical Review Committee may confirm, reverse, or vary the decision of the Registrar and decisions made by the Committee are final.

The Medical Review Committee consists of a Chairman (a General Practitioner), a Cardiologist, a Neurologist, an Ophthalmologist and a lay person. There is also an alternate in each of the specialized medical fields. Hearings are conducted in Winnipeg only and are attended by the Chairman, the Specialist and a lay person to form a quorum.

A total of 188 applications were received in 1984. These applications are broken down into three categories as follows:

(1) Cardiology - 58 applications
(2) Neurology - 74 applications
(3) Ophthalmology - 56 applications

Tables MR1, MR2 and MR3 show the breakdown of these applications into age, sex, licence class and the number of licences issued, denied or granted.

THE MOTOR TRANSPORT BOARD

The Motor Transport Board exercises both an intra-provincial and extra-provincial jurisdiction in the regulation of the transportation of passengers and freight by motor carriers. It is statutorily created by Section 298 of The Highway Traffic Act and acquires its mandate and executes its responsibilities for its intra-provincial jurisdiction pursuant to Part VIII of the Act. Its extra-provincial jurisdiction arises out of The Motor Vehicle Transport Act (Canada), which authorizes the Board to regulate motor transport extra-provincially "in like manner" to its intra-provincial jurisdiction.

In executing its role, the Board, which has eight members, controls entry into the for-hire truck and bus industry on an intra and extra-provincial basis and sets transportation rates and charges intra-provincially. It also establishes minimum insurance and fidelity requirements and generally supervises carriers' operations for the protection of the public.

Every province in Canada has a Board or Commission which regulates its motor transport industry in a similar fashion, particularly with respect to extra-provincial operations. The national nature of transportation service, has made it necessary for there to be continuing liaison and co-operation between the Provinces and the Federal Government. This has been achieved through an organization of transportation officials known as the Canadian Conference of Motor Transport Administrators (C.C.M.T.A.) which answers to the Council of Ministers responsible for transportation and highway safety. The C.C.M.T.A. is divided into four Standing Committees:

1) Standing Committee on Drivers and Vehicles;
2) Standing Committee on Motor Carriers;
3) Standing Committee on Traffic Safety Programs;
4) Standing Committee on Canadian Agreement on Vehicle Registrations.

The Board is actively involved in the Standing Committee on Motor Carriers and has taken a high national profile role since 1975. The Standing Committee has undertaken to reduce the administrative barriers respecting transportation by developing uniformity in regulatory practice throughout Canada.

The Board has been actively pursuing its policy of full and free licencing and registration reciprocity with American jurisdictions. The Board has been encouraging the free flow of goods and transportation services with the United States of America for the betterment of shippers, consumers and carrier communities. The Board has signed full and free reciprocity agreements with thirty-one states in the United States of America, including a reduced licence fee agreement with the State of North Dakota. Currently, the Board is continuing to negotiate with United States jurisdictions for full and free reciprocity privileges.

The Board participated in one Joint Hearing with other jurisdictions to hear concurrently the evidence of applications made by extra-provincial public service vehicle carriers.

During the year, the Board held 171 public hearings to hear applications for public service vehicle authority. Applicants are required to prove, through their witnesses, that the existing transportation service is insufficient or that the public convenience will be further promoted by their application.

During the year, the Board also held 51 General Board Meetings to deal with various matters including:

- considering applications for public service vehicle authority that are uncontested;
- preparing public service vehicle applications for gazetting purposes; and
- extending and issuing temporary authorities.

At its hearings, the Board dealt with 449 applications, which were disposed of as follows:

Approved	322
Denied	11
Withdrawn	45
Cancelled	13
Postponed	2
Dismissed	1
Joint Hearings	1
Pending	26
Show Cause	28
Total	449

Included in the 499 applications were 217 Federal Carrier applications seeking extra-provincial operating authority. The Board, in its capacity as a Provincial Transport Board under the Motor Vehicle Transport Act (Canada), disposed of the applications as follows:

Approved	150
Denied	6
Withdrawn	18
Cancelled	7
Postponed	0
Dismissed	0
Pending	14
Show Cause	22
Total	217

The Board approved 54 designated commodity applications during the year. These are included in the total of 449 applications dealt with by the Board, and consisted of 34 designated commodity applications related to agricultural commodities in their final movement internationally and 20 household goods and personal effects, as described in Tariff M101.

The Boards's staff investigated and issued 302 temporary Public Service Vehicle authorites. The temporary authorities were issued when it was established that the authorized carriers could not provide the required service or did not object to the issuance of the temporary authority, or where extraordinary circumstances necessitated its issuance.

The Board's staff also issued 1,510 Letter Permits, temporarily allowing the use of motor vehicles not otherwise authorized.

The Board's Inspectors investigated and concluded 156 filed complaints that were submitted to the Board by; shippers, consignees, carriers and the general public. The nature of the complaints are categorized as:

Violations of Authority	52
Public Service Vehicle operations without authority	46
Lack of Service	15
Rate Tariff Violations	10
Illegal Advertisements	10
Failure to Remit C.O.D. Funds	8
Claim Disputes	6
Miscellaneous	9
Total	156

REVENUE COMPARISON

The following is a revenue comparison of the fees collected by the Motor Transport Board for the Licence Year February 28, 1985.

	March 1/82 to February 28/83	March 1/83 to February 29/84	March 1/84 to February 28/85
Application Fees	$17,050.00	$19,975.00	$19,250.00
Respondent Fees	12,700.00	15,100.00	16,125.00
Hearing Fees	17,150.00	20,000.00	22,875.00
Disciplinary Action Fees	13,445.00	10,800.00	6,050.00
	$60,345.00	$65,875.00	$64,300.00

REVENUE COMPARISON 1983/84 - 1984/85

The Highway Traffic Act	1983/84	1984/85	Increase or Decrease
P.S.V. Freight Trucks Trailers	$3,064,931.00	$3,250,066.00	+ $185,135.00
P.S.V. Passenger Buses	65,539.00	70,220.00	+ 4,681.00
Commercial Trucks Trailers	2,914,826.00	2,953,132.00	+ 38,306.00
Inter-Municipal Liveries	31,090.00	31,318.00	+ 228.00
Miscellaneous	675,210.00	640,329.00	- 34,881.00
	$6,751,596.00	$6,945,065.00	+ $193,469.00

Miscellaneous revenue referred to above is further broken down as follows:

Single Trip Permits	$ 476,221.00	$ 426,077.00
Transit and Breakdown Permits	228.00	1,368.00
Limited Permits	8,206.00	14,680.00
Administration Fees Manitoba Based	28,854.00	47,154.00
Canadian Agreement on Vehicle Registration Administration Fees	98,563.00	87,781.00
Motor Transport Board Filing and Hearing Fees and Costs	63,138.00	63,269.00
	$ 675,210.00	$ 640,329.00

REVENUE
1984 - 1985 LICENCE YEAR

P.S.V. Trucks, Trailers, Driveaway Manitoba Based	$2,311,015.00	
- Weight Increases	17,563.00	
- Change of Vehicle	4,016.00	
P.S.V. Trucks, Out-of-Province Based	917,472.00	$3,250,066.00
P.S.V. Passenger Buses, Manitoba Based	$ 33,041.00	
- Change of Vehicle	40.00	
P.S.V. Passenger Buses, Out-of-Province Based	33,179.00	$ 66,260.00
Commercial Trucks, Trailers, Driveaways Manitoba Based	$2,729,200.00	
- Weight Increases	17,420.00	
- Change of Vehicle	4,339.00	
Commercial Trucks, Out-of-Province Based	$ 202,173.00	$2,953,132.00
Liveries		
- Country	$ 9,963.00	
- Change of Vehicle	1.00	$ 9,964.00
- City	$ 21,326.00	
- Change of Vehicle	28.00	$ 21,354.00

Comparative Statement of Vehicles Registered

Vehicles Base-Plated in Manitoba	1983/84	1984/85
Public Service Vehicle Trucks	2,786	2,810
Public Service Vehicle Quarterly	188	213
Public Service Trailers	13	17
Public Service Vehicle Driveaways	15	30
Commercial Trucks	16,905	18,182
Commercial Trucks Quarterly	578	678
Commercial Trailers	764	845
Commercial Driveaways	26	22
Passenger Buses	143	141
Inter-Municipal Liveries	657	690
	22,075	23,628

Vehicles Registered under
Canadian Agreement on Vehicle Registration

Manitoba Based	636	Commercial (CT)
	1,479	PSV
	67	U-Drive
	2,182	
Out-of-Province Based	1,601	Commercial (CT)
	4,573	PSV
	430	U-Drive
	6,604	

THE TAXICAB BOARD

The Taxicab Board, created by the Taxicab Act, is composed of a member of the Council of the City of Winnipeg, the Chief Constable of the Police Force of the City of Winnipeg and three other persons appointed by the Lieutenant-Governor in Council.

During the fiscal year 1984-1985, the Board issued 1,811 Taxicab Drivers Licences but 48 licence applications were rejected because the applicants either lacked sufficient knowledge of the City of Winnipeg, were on probation at the Safety Division or otherwise failed to meet the Board's requirements for a taxicab driver.

The number of taxicabs authorized to operate in the City of Winnipeg remained at 400, the same as in the previous year. However, the Taxicab Board authorized the licencing of 19 additional vehicles to be used for weddings, funerals, V.I.P. and sightseeing tours, including limousine service from the Winnipeg International Airport to downtown hotels.

For many years, the Taxicab Board has allowed licenced Taxicab Operators to add temporary, extra taxicabs during the Christmas and New Year period. There were 45 additional taxicabs operating during December 1, 1984 to February 28, 1985.

The Taxicab Board heard 11 reports from its inspectors who made 1,509 individual inspections of taxicab meters during 1984-85. This represents a decrease of 273 inspections from the previous year and is due to the fact that there was not a meter increase during this period.

The Taxicab Board is no longer issuing licence plates because of changes in the Highway Traffic Act. Taxicab and U-Drive Licence Plates are now being issued by the Driver and Vehicle Licencing Division. However, the Board is continuing to issue Taxicab Driver Licences, Taxicab Business Licences and Drive Yourself Booking Office Licences.

Summary of Revenues:

	83/84	84/85
Taxi and U-Drive License Plates	$ 172,049.00	$ 180,897.00
Change of Vehicle	2,146.00	2,077.00
Taxicab, U-Drive Business License and Taxicab Driver License	2,083.00	2,140.00
	$ 174,195.00	$ 182,974.00

Summary of Licenses Issued:	83/84	84/85
To operate a Taxicab Business	197	204
To operate a Taxicab	400	400
To operate a Taxicab Temporarily under permit	15	14
Drive Yourself Business License	89	99

NOTE: This Report is for the License Year March 1, 1984 to February 29, 1985.

Manitoba

Highways and
Transportation

ADMINISTRATION SECTION

TABLES A1, THROUGH A13

Table No. A1

SUMMARY OF GROSS EXPENDITURES

Administration and Subsidiary	$ 25,248,327.60
Aids	6,074,069.07
Construction	85,226,001.92
Maintenance	52,936,768.97
Mechanical Division	1,248,521.61CR
Warehouse Stores	477,349.92
Motor Vehicle Branch	12,404,544.26
Miscellaneous**	10,903,774.79
Air and Radio Services*	2,601,603.29
Winter Truck Roads	2,302,671.69
Transportation	221,232.24
	$197,147,822.14

**15-8H-99	Recovered from Northern Affairs	$ 2,426,677.73
*15-8E-3	Recovered from Northern Affairs	$ 1,042,199.08

Table No. A2

ADMINISTRATION AND SUBSIDIARY EXPENDITURES

APPROPRIATION	DIVISION	AMOUNT
15-1A & B	Administration	$ 340,816.63
15-1C	Administration Services	461,570.13
15-1F	Computer Services	839,431.95
15-1D	Financial Services	537,747.22
15-7A-B	Transportation Division	948,441.87
15-1E	Personnel Services	551,700.17
15-2A	Operations & Contracts	1,239,147.70
15-2B	Laboratory	1,298,953.96
15-2C	Surveys & Titles	878,601.89
15-2D	Bridge Office	1,218,803.52
15-2E	Traffic Section	389,770.09
15-2F	District Offices	8,149,786.97
15-2G	Traffic Inspection	1,669,255.96
15-3A	Planning & Design	1,702,506.57
15-4D-1	Northern Airports	2,074,977.32
15-4E	Marine Services	632,099.11
15-5	Air/Radio Services	2,314,716.54
		$25,248,327.60

Table No. A3

AIDES TO CITIES, TOWNS, VILLAGES AND UNINCORPORATED VILLAGES AND WORK IN UNORGANIZED TERRITORY

APPROPRIATION	PURPOSE	AMOUNT
15-8B	Aides to Cities, Towns, Villages and Unincorporated Villages	$1,344,241.14
	Grant equal to 50% of the cost of approved street construction projects.	
15-8C	Work in Unorganized Territory and Disorganized Municipalities	3,939,429.50
	Activity provides for construction and maintenance in Unorganized Territory on 50/50% or 100% basis depending on category of road.	
	Flood Emergency	3,381.06
15-8D	Access to Remote Communities	787,017.37
		$6,074,069.07

Table No. A4

CONSTRUCTION

APPROPRIATION	PURPOSE	AMOUNT
15-8A	Provincial Trunk Highways	$40,952,458.17
	Provincial Roads	31,146,799.30
	Northern Roads	13,126,744.45
		$85,226,001.92

Table No. A5

MAINTENANCE

APPROPRIATION	PURPOSE	AMOUNT
15-4A	General Maintenance on Provincial Trunk Highways	$18,391,073.05
	General Maintenance on Provincial Roads	28,831,780.43
	Miscellaneous Expenditures	
	Vacation & Sick Leave	2,156,648.34
	Traffic Control	3,299,252.37
	Maintenance Management	236,749.00
	Ferries	66,722.73
	Maintenance Materials Holding Account	36,840.39
	Administrative Overheads	82,297.34CR.
		$52,936,768.97

Table No. A6

MECHANICAL DIVISION
APPROPRIATION 15-4B

Other Expenditures) Equipment & Tools) Building & Storage Yards)	$20,001,226.32	
Sub Total		$20,001,226.32
Less Machine Rentals		21,249,747.93
TOTAL		$ 1,248,521.61CR.

Table No. A7

WAREHOUSE STORES
APPROPRIATION 15-4C

Other Expenditures	$ 486,185.64	
Purchases	6,193,885.19	
Sub Total		$6,680,070.83
Less Recoveries		6,202,720.91
TOTAL		$ 477,349.92

Table No. A8

MOTOR VEHICLE BRANCH

APPROPRIATION	PURPOSE	AMOUNT
15-6A	Management Services	$ 4,954,689.94
15-6B	Driver Licencing and Vehicle Registration	1,207,984.79
15-6C	Safety	5,251,180.21
15-6D	Highway Traffic Board Highway Transport Board, Taxicab Board and Licence Suspension Appeal Board	990,689.32
		$12,404,544.26

Table No. A9

MISCELLANEOUS EXPENDITURES

APPROPRIATION	PURPOSE	AMOUNT
15-4G-1 & G-2	Maintenance & Construction	$ 4,052,290.55
15-8E-1B	Gravel Exploration	132,608.17
15-8E-1C	Mechanical Division Equipment	828,722.40
15-8E-1D	Water Bomber Contract	147,122.00
15-8E-1E	Equipment Storage Buildings	2,644,313.31
15-8E-1F	Improvements to Weigh Scales	72,316.69
15-8E-1G	Ferry Landing Improvements	29,313.90
15-8E-1J	Transportation - Handicapped	50,000.00
15-8E-1L	Land	125.00
15-8E-1M	Ferries Major Repairs	231,348.14
15-8F-1 & F-2	Bridge Timbers & Materials Stockpiled	44,901.83
15-8G-1 & G-2	Purchase Crushed Gravel	244,035.07
15-8H	Jobs Fund Construction** (Recoverable from Northern Affairs)	2,426,677.73
		$10,903,774.79

**See Table No. A1

Table No. A10

AIR AND RADIO SERVICES, AIRPORT OPERATIONS AND MAINTENANCE, MARINE SERVICES

APPROPRIATION	PURPOSE	AMOUNT
15-4D-2	Other Expenditure	$1,175,619.41
15-8E-1A	Minor Improvements to Airports	315,468.37
15-8E-2A	Airport Development * (Recoverable from Northern Affairs)	650,185.64
15-8E-2B	Community Roads * (Recoverable from Northern Affairs)	392,013.44
15-8E-1H	Resource Roads	59,198.02
15-8E-1K	Thompson - Air Hanger	9,118.41
		$2,601,603.29

* See Table No. A1

Table No. A11

WINTER TRUCK ROADS, CONSTRUCTION AND MAINTENANCE

APPROPRIATION	PURPOSE	AMOUNT
15-4F-1	Winter Truck Roads	$ 92,930.24
15-4F-2	Winter Truck Roads	2,209,741.45
		$2,302,671.69

Table No. A12

TRANSPORTATION DIVISION

APPROPRIATION	PURPOSE	AMOUNT
15-7C	Rural Transportation Grants for the Disabled	$221,232.24
15-7D-1	Churchill Development***	14,062.28
15-7D-2A	Transport Development***	16,631.19
15-7D-2B	Other Expenditures***	62,973.29
	Sub Total	314,899.00
	***Less Recoveries 15-7D-99	93,666.76CR
	TOTAL	221,232.24

FINANCIAL REPORT
YEAR ENDED MARCH 31, 1985

The following pages provide a summary report on Highways and Transportation expenditures in the fiscal year 1984/85, a comparison of actual expenditures to the amount approved by the Legislature for each appropriation and an explanation of significant expenditures to vote variances.

The 1984/85 fiscal year ended with a $2.9 million surplus in comparing actual expenditure to main estimates. The surplus is mainly attributed to a $7.7 million surplus in road construction as a result of early winter conditions delaying several major road construction projects. This was partially offset by a $2.6 million over-expenditure in winter maintenance due to an early winter, abnormal icy road conditions and heavier than anticipated snowfall, and the purchase of a new facility for our Mechanical Equipment Services Section $2.1 million, the opportunity for which was not foreseen at budget preparation time. Other significant expenditure variances are explained at the conclusion of this report.

Further expenditure detail will be found on pages providing program information. Expenditure detail is provided for variance levels as follows:

Size of Total Allotment	Level of Significance
Up to $500,000.00	20% or over
$500,100.00 to $1,000,000.00	15% or over
$1,000,100.00 to $5,000,000.00	10% or over
$5,000,000.00 and over	5% or over

TABLE NO. A13

EXPENDITURE SUMMARY
BY APPROPRIATION

APPRO. NO.	SERVICE	ACTUAL $	1984/85 ESTIMATE $	VARIANCE $	EXPLANATION NUMBER
15-1	Administration and Finance				
	(a) Minister's Salary	18,112	19,600	(1,488)	
	(b) Executive Support				
	Salaries	236,314	231,200	5,114	
	Other Expenditures	86,391	71,000	15,391	1
	(c) Administrative Services				
	Salaries	430,609	451,900	(21,291)	
	Other Expenditures	30,961	26,700	4,261	
	(d) Financial Services				
	Salaries	479,828	485,800	(5,972)	
	Other Expenditures	57,919	65,700	(7,781)	
	(e) Personnel Services				
	Salaries	476,631	461,800	14,831	
	Other Expenditures	75,069	87,200	(12,131)	
	(f) Computer Services				
	Salaries	538,446	581,900	(43,454)	
	Other Expenditures	300,986	367,500	(66,514)	
	TOTAL 15-1	2,731,266	2,850,300	(119,034)	

TABLE NO. A13

APPRO. NO.	SERVICE	ACTUAL $	1984/85 ESTIMATE $	VARIANCE $	EXPLANATION NUMBER
15-2	Management Services and Engineering				
	(a) Operations and Contracts				
	Salaries	1,008,778	1,006,000	2,778	
	Other Expenditures	230,370	351,500	(121,130)	2
	(b) Laboratory and Materials				
	Salaries	1,104,162	1,126,600	(22,438)	
	Other Expenditures	194,792	177,600	17,192	
	(c) Surveys and Titles				
	Salaries	693,999	747,300	(53,301)	
	Other Expenditures	184,603	167,500	17,103	
	(d) Bridges				
	Salaries	1,128,907	1,189,300	(60,393)	
	Other Expenditures	89,896	97,000	(7,104)	
	(e) Traffic				
	Salaries	341,577	329,100	12,477	
	Other Expenditures	48,193	64,100	(15,907)	3
	(f) District Offices				
	Salaries	7,004,940	7,238,200	(233,260)	
	Other Expenditures	1,144,847	1,158,200	(13,353)	

TABLE NO. A13

APPRO. NO.	SERVICE	ACTUAL $	1984/85 ESTIMATE $	VARIANCE $	EXPLANATION NUMBER
15-2	Management Services and Engineering Cont'd.				
	(g) Highway Traffic Inspection				
	Salaries	1,431,183	1,463,400	(32,217)	
	Other Expenditures	238,073	269,900	(31,827)	
	TOTAL 15-2	14,844,320	15,385,700	(541,380)	
15-3	Planning and Design				
	(a) Salaries	1,427,620	1,441,700	(14,080)	
	(b) Other Expenditures	274,887	261,100	13,787	
	TOTAL 15-3	1,702,507	1,702,800	(293)	
15-4	Maintenance-Highways and Airports				
	(a) Maintenance Program	52,936,769	50,881,400	2,055,369	4
	(b) Mechanical Division				
	Salaries	6,679,463	7,182,200	(502,737)	5
	Other Expenditures	13,321,763	13,660,900	(339,137)	
	Less: Recoverable from Other Appropriations	21,249,748CR	20,793,300CR	456,448CR	
	(c) Warehouse Stores				
	Salaries	339,754	441,800	(102,046)	6
	Other Expenditures	146,432	112,100	34,332	7
	Purchases	6,193,885	5,280,800	913,085	8
	Less: Recoverable from Other Appropriations	6,202,721CR	5,360,000CR	842,721CR	

TABLE NO. A13

APPRO. NO.	SERVICE	ACTUAL $	1984/85 ESTIMATE $	VARIANCE $	EXPLANATION NUMBER
15-4	Maintenance-Highways and Airports Cont'd.				
	(d) Northern Airports				
	Salaries	2,074,977	2,148,800	(73,823)	
	Other Expenditures	1,175,619	1,155,300	20,319	
	(e) Marine Services				
	Salaries	297,560	408,100	(110,540)	9
	Other Expenditures	334,539	364,900	(30,361)	
	(f) Winter Roads				
	100% Provincial	92,930	100,000	(7,070)	
	Shareable	2,209,742	2,200,000	9,742	
	(g) Other Jurisdictions				
	Gross Expenditures	5,243,933	4,500,000	743,933	10
	Less: Recoverable from Other Appropriations	1,191,642CR	2,165,000CR	(973,358)CR	11
	TOTAL 15-4	62,403,255	60,118,000	2,285,255	
15-5	Air/Radio Services				
	(a) Salaries	2,475,753	2,410,300	65,453	
	(b) Other Expenditures	2,881,096	2,388,600	492,496	12
	(c) Less: Recoverable from Other Appropriations	3,042,132CR	2,375,000CR	667,132CR	13
	TOTAL 15-5	2,314,717	2,423,900	(109,183)	

TABLE NO. A13

APPRO. NO.	SERVICE	ACTUAL $	1984/85 ESTIMATE $	VARIANCE $	EXPLANATION NUMBER
15-6	Motor Vehicle Branch				
	(a) Management Services				
	Salaries	1,573,687	1,591,500	(17,813)	
	Other Expenditures	3,381,003	1,745,000	1,636,003	14
	(b) Driver Licencing and Vehicle Registration				
	Salaries	724,234	732,600	(8,366)	
	Other Expenditures	483,751	640,900	(157,149)	15
	(c) Safety				
	Salaries	3,789,492	3,933,800	(144,308)	
	Other Expenditures	1,461,688	1,460,300	1,388	
	(d) Highway Traffic Board, Motor Transport Board, Taxicab Board and Licence Suspension Appeal Board				
	Salaries	827,707	866,500	(38,793)	
	Other Expenditures	162,982	207,100	(44,118)	16
	TOTAL 15-6	12,404,544	11,177,700	1,226,844	

TABLE NO. A13

APPRO. NO.	SERVICE	ACTUAL $	1984/85 ESTIMATE $	VARIANCE $	EXPLANATION NUMBER
15-7	Transportation Division				
	(a) Salaries	649,753	697,500	(47,747)	
	(b) Other Expenditures	298,689	296,400	2,289	
	(c) Rural Transportation Grants for the Disabled	221,232	220,000	1,232	
	(d) Jobs Fund				
	Churchill Development	14,062	95,000	(80,938)	17
	Transportation Development	79,605	740,000	(660,395)	17
	Less: Recoverable from Jobs Fund	93,667CR	835,000CR	(741,333)CR	17
	TOTAL 15-7	1,169,674	1,213,900	(44,226)	
15-8	Expenditures Related to Capital Assets				
	(a) Construction and Upgrading of Provincial Trunk Highways, Provincial Roads and Related Projects	85,226,002	93,000,000	(7,773,998)	18
	(b) Aid to Cities, Towns and Villages	1,344,241	1,694,000	(349,759)	19
	(c) Work in Unorganized Territory	3,942,811	3,490,100	452,711	20
	(d) Access to Remote Communities	787,017	800,000	(12,983)	

TABLE NO. A13

APPRO. NO.	SERVICE	ACTUAL $	1984/85 ESTIMATE $	VARIANCE $	EXPLANATION NUMBER
15-8	Expenditures Related to Capital Assets Cont'd.				
	(e) Acquisition/Construction of Physical Assets				
	Other Projects				
	Airport Improvements	315,468	227,000	88,468	21
	Gravel Pits	132,608	200,000	(67,392)	22
	Highway Equipment	828,723	796,000	32,723	
	Water Bomber Contract	147,122	147,100	22	
	Highway Buildings and Storage Yards	2,644,313	611,000	2,033,313	23
	Improvements to Weigh Scales	72,317	75,000	(2,683)	
	Ferry Landing Improvements	29,314	45,000	(15,686)	24
	Reserve Roads	59,198	150,000	(90,802)	25
	Rural Transportation				
	Grants for the Disabled	50,000	50,000	-	
	Thompson - Air Hangar	9,118	20,000	(10,882)	26
	Acquisition of Land in Controlled Areas	125	50,000	(49,875)	27
	Ferries	231,348	175,000	56,348	28
	Bridge Materials - Purchases	654,468	800,000	(145,532)	
	Bridge Materials-Issues	609,566CR	800,000CR	(190,434)CR	
	Crushed Gravel-Purchases	3,118,102	3,000,000	118,102	
	Crushed Gravel-Issues	2,874,067CR	2,800,000CR	74,067CR	

TABLE NO. A13

APPRO. NO.	SERVICE	ACTUAL $	1984/85 ESTIMATE $	VARIANCE $	EXPLANATION NUMBER
15-8	Expenditures Related to Capital Assets Cont'd.				
	Northern Development Agreement Canada-Manitoba				
	Airport Development	650,186	735,000	(84,814)	
	Norway House Community Roads	392,013	400,000	(7,987)	
	Less: Recoverable from Northern Affairs	1,042,199CR	1,135,000CR	(92,801)CR	
	Jobs Fund				
	Construction-Roads and Highways	1,926,400	2,180,000	(253,600)	
	Churchill Development	150,000	150,000	-	
	Transportation Development	350,278	1,673,000	(1,322,722)	29
	Less: Recoverable from Jobs Fund	2,426,678CR	4,003,000CR	(1,576,322)CR	29
	TOTAL 15-8	96,108,662	101,730,200	(5,621,538)	
	NET EXPENDITURES	193,678,945	196,602,500	(2,923,555)	

TABLE NO. A13

EXPENDITURE VARIANCE EXPLANATIONS
ACTUALS VS MAIN ESTIMATES

EXPLANATION NUMBER	EXPLANATION
1.	Increased Federal/Provincial consultations resulted in higher travel and telephone expenses.
2.	Deferment of the 1985 Highway map resulted in a decrease in other expenditures.
3.	Decrease in operating expenditures due to majority of travel expenses being incurred by capital projects.
4.	The early commencement of winter and the abnormal level of icy road conditions plus heavier than anticipated snowfall resulted in increased winter maintenance expenditures.
5.	Decrease in salaries due to increased utilization of departmental employees as snowplow operators for winter maintenance.
6.	Decrease in salaries due to departmental employees being utilized as machine operators and charged to maintenance activities.
7.	Increase in expenditures due to providing security for Wilkes Yard.
8.	Warehouse Stores purchases and issues are higher than budgeted due to general price increases and increased items processed through stores. Additional fuel, asphalt, fillers, chemicals, repair parts and maintenance expenditures were incurred in 1984/85.
9.	Decrease in salaries due to funding of Edgar Wood ferry by operating grant.
10.	Increase in expenditures due to increased services being requested on an Accounts Receivable basis. During the 1984/85 fiscal year, the department was called upon to deliver the following major projects that had not been identified and funding had not been provided during preparation of the 1984/85 expenditure estimates. Manitoba Hydro - Gillam Road Maintenance $474.6 R.M. of Russell - Harrowby Access Road 223.2 $697.6

TABLE NO. A13

EXPLANATION NUMBER	EXPLANATION
11.	Decrease in recoveries due to a decrease in requests for services from other government departments. The majority of the services were provided to third parties which resulted in increased revenue.
12.	Increase in expenditures due to increased aircraft utilization (particularly water bombing), air ambulance start-up and premature engine failure on a water bomber.
13.	Increase in recoveries due to heavy forest fire fighting activities and an over-all increase of aircraft utilization.
14.	During the year, cost-sharing of Agents' Commissions with M.P.I.C. was under review. The 1984/85 payment directed by Treasury Board resulted in an expenditure of $1,774.0 exceeding the original budgeted for that purpose.
15.	Decrease in expenditures due to inventory of licence plates being reduced from a two-year supply to a one-year supply.
16.	Deferment of computerized system implementation for the Motor Transport Board.
17.	Transportation sub-agreements were behind schedule.
18.	Several major road construction projects were not completed due to unusually early winter conditions and a very wet Fall. Also delays in acquiring acquisition of right-of-way was another factor.
19.	Grants are issued pursuant to work completed on projects approved by Ministerial Order. Programs achieved by Cities, Towns and Villages determine annual expenditures. Several projects that were approved did not proceed due to their withdrawal from the program by the jurisdictions involved.
20.	Increased expenditures for L.G.D. work due to front-end financing on 50/50 projects delivered by the Province.
21.	The upgrading of the Swan River Airport was added to the program during the year.

TABLE NO. A13

EXPLANATION NUMBER	EXPLANATION
22.	Funds provided for the purchase of gravel pits were not fully utilized.
23.	Increased expenditures due to the purchase of new facilities for Mechanical Services at 1550 Dublin Avenue.
24.	Damage to ferry landings due to high water and ice not as severe as anticipated.
25.	Early winter conditions curtailed activity on the Cross Lake access road.
26.	The construction of the hangar apron at Thompson was postponed.
27.	During 1984/85, no purchases of land in controlled areas were made.
28.	Additional expenditures were incurred due to the relocation of the Charlie Sinclair ferry from Cross Lake to South Indian Lake.
29.	Construction of the building for the Transportation Institute was set back due to delays in selecting the actual site.

Manitoba

Highways and Transportation

CONSTRUCTION SECTION

TABLES C1, THROUGH C6

Table No. C1

HIGHWAY CONSTRUCTION
KILOMETRES OF WORK COMPLETED
VARIOUS APPROPRIATIONS

	Grading	Gravelling	Base Course	Bituminous Pavement	Asphalt Surface Treatment	Seal Coat	Calcium Chloride	Concrete Pavement
Provincial Trunk Highways (Table No. C2)	99.8	61.3	60.3	73.8	2.6	134.9	8.5	8.7
Provincial Roads (Table No. C3)	201.2	176.4	72.1	31.1	43.1	3.7	286.1	-
Northern Roads (Table No. C4)	127.9	130.4	8.2	-	8.2	-	2.5	-
Provincial Highways 15-4A, Contingencies, Special Projects & Stop Gap (Table No. M1)	-	-	-	-	-	-	-	-
	428.9	368.1	140.6	104.9	53.9	138.6	297.1	8.7

HIGHWAY CONSTRUCTION
PROVINCIAL TRUNK HIGHWAYS
APPROPRIATION 15-8A

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
1	7754	Assiniboine River Bridge on Brandon Bypass R.M. of Whitehead 1.0 km	Grade Bridge Approaches	$ 71,809.88
	7762	Alexander - Oak Lake R.M. of Whitehead & Sifton 22.9 km	Base Course 22.9 km Bituminous Pavement 22.9 km	3,720,435.23
	7785	Assiniboine River Bridge on Brandon Bypass R.M. of Whitehead 1.6 km	Bituminous Pavement Bridge Approaches	269,853.39
	7802	West Jct. P.T.H. No. 1A - West Jct. P.T.H. No. 10 R.M. of Whitehead, Elton & Cornwallis 13.7 km	Preliminary Engineering Right-of-Way	340,274.63
	7803	West of Alexander - East of Oak Lake R.M. of Whitehead 11.5 km	Grade Gravel	5,312.91
	7826	Westbound Lanes East of Junction P.T.H. No. 26 R.M. of St. Francois Xavier	Replace Concrete Pavement	47,978.15
	7829	Oak Lake Bypass R.M. of Sifton 5.4 km	Preliminary Engineering Right-of-Way Utilities	315,759.88
	7837	Oak Lake - Virden R.M. of Sifton, Woodworth & Wallace 21.0 km	Preliminary Engineering	37,085.67
	7839	Oak Lake Bypass R.M. of Sifton 5.2 km	Grade 5.2 km Gravel 5.2 km	194,154.39
	7846	P.T.H. No. 21 - Virden R.M. of Sifton, Woodworth & Wallace 40.0 km	Preliminary Engineering	2,738.27

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
1	7847	P.T.H. No. 21 - Oak Lake R.M. of Sifton 10.2 km	Grade Gravel	$ 3,848.58
	7860	West Perimeter Highway - West of Headingley City of Winnipeg 6.0 km	Right-of-Way	27,038.11
	7874	West of Falcon Lake Whiteshell Provincial Park L.G.D. of Reynolds 12.4 km	Bituminous Pavement	566,939.97
	7886	East of First Street - West of 18th Street R.M. of Elton, Cornwallis & City of Brandon 3.0 km	Preliminary Engineering Right-of-Way	3,452.11
	7900	Junction P.T.H. No. 100 and No. 1 East	Manufacture & Install Guide Signs	5,207.90
	7911	1.6 km West P.T.H. No. 11 - P.R. No. 308 L.G.D. of Reynolds 23.8 km	Purchase of Seal Coat Chips	33,072.27
1 & 430	7877	R.M. of Portage la Prairie 365.8 m	Grade	95,687.58
1A	7743	CPR Railway Track - West Interchange R.M. of Portage la Prairie 3.2 km	Base Course Bituminous Pavement	4,009.92
	7744	Saskatchewan Avenue 5th Street East - 4th Street West R.M. of Portage la Prairie 1.1 km	Bituminous Pavement	1,430,316.45
	7763	CPR Railway Tracks West Interchange R.M. of Portage la Prairie 2.6 km	Preliminary Engineering Right-of-Way Utilities	19,105.67
	7895	West of P.T.H. No. 26 - 10th Street East City of Portage la Prairie R.M. of Portage la Prairie 2.1 km	Preliminary Engineering	736.55

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
2	7789	P.R. No. 342 - P.T.H. No. 18 R.M. of South Cypress 24.1 km	Preliminary Engineering Right-of-Way	$ 21,327.41
	7790	P.T.H. No. 18 - South Junction P.T.H. No. 10 R.M. of Oakland 15.9 km	Preliminary Engineering	8,659.28
	7791	N.E. Cor. Sec. 24-8-5W. R.M. of Grey	Detour & Bridge Approaches	95,621.99
	7799	P.R. No. 244 - W. Boundary R.M. of South Norfolk R.M. of South Norfolk 10.8 km	Preliminary Engineering Right-of-Way Utilities	32,257.42
	7800	P.T.H. No. 13 - P.R. No. 240 R.M. of Grey 25.4 km	Bituminous Pavement Shoulder Gravel	12,043.44
	7838	Graham Creek R.M. of Pipestone	Construct Shoefly Detour	30,452.22
3	7735	N. Jct. P.T.H. No. 18 - W. Jct. P.R. No. 346 R.M. of Turtle Mountain 16.1 km	Grade Widening	10,379.99CR.
	7820	S. Jct. P.T.H. No. 21 - P.R. No. 254 R.M. of Winchester & Brenda 24.4 km	Seal Coat 24.4 km	132,128.89
	7881	P.T.H. No. 10 - Whitewater Access R.M. of Morton 16.3 km	Preliminary Engineering	921.16
5	7733	Dauphin Bypass R.M. of Dauphin 6.0 km	Grade 6.0 km Gravel 6.0 km	705,873.66
	7756	S. Jct. P.T.H. No. 10 - South Limit of Dauphin R.M. of Dauphin 3.4 km	Preliminary Engineering	4,871.58
	7821	East of Ochre River - P.R. No. 235 R.M. of Ochre River & Ste. Rose 20.4 km	Seal Coat 20.4 km	89,270.37

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
5	7850	West of Grandview - P.R. No. 584 R.M. of Grandview & Hillsburg 20.8 km	Preliminary Engineering Right-of-Way Utilities	$ 2,509.94
	7902	P.R. No. 584 West of Grandview, R.M. of Grandview & Hillsburg 21.8 km	Grade Widening Shoulder Gravel	90,933.96
	7903	S. & N. Jct. P.T.H. No. 10, Dauphin Bypass R.M. of Dauphin 7.3 km	Base Course Bituminous Pavement	902.60
	7904	East of NE 9-20-15W. R.M. of McCreary	Purchase Right-of-Way	2,503.42
5 & 10	7757	Dauphin Bypass R.M. of Dauphin 5.6 km	Preliminary Engineering Right-of-Way Utilities	171,816.05
	7782	Dauphin 1st St. NW - North Junction P.T.H. No. 5 & 10 R.M. of Dauphin & Gilbert Plains 17.4 km	Preliminary Engineering Right-of-Way Utilities	1,000.00
6	7822	km 33.6 - km 65.8 North of Gypsumville Unorganized Territory 32.2 km	Seal Coat 32.2 km	191,390.99
	7823	km 123.2 - km 181.1 North of Gypsumville Unorganized Territory 57.9 km	Seal Coat 57.9 km	284,975.62
	7908	Vicinity of Devils Lake Unorganized Territory 32.5 km	Grade 22.7 km Gravel 22.7 km	92,025.48
7	7745	P.R. No. 517 - P.R. No. 228 R.M. of Rockwood Village of Teulon & Gunton 16.6 km	Bituminous Pavement	1,358,826.66

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
7	7764	P.R. No. 517 - P.R. No. 228 R.M. of Rockwood 14.8 km	Preliminary Engineering Right-of-Way Utilities	$ 38,611.00
	7765	P.R. No. 228 - P.R. No. 229 R.M. of Rockwood 14.2 km	Preliminary Engineering Right-of-Way Utilities	229,313.54
	7811	Balmoral - Teulon R.M. of Rockwood 15.3 km	Grade Widening Gravel	7,115.72
	7827	P.R. No. 229 - North Junction P.R. No. 231 L.G.D. of Armstrong 18.0 km	Right-of-Way	89,927.56
	7836	0.5 miles North of P.T.H. No. 101 - 1.5 miles North of P.T.H. No. 67 R.M. of Rosser & Rockwood 8.9 km	Base Course Concrete Pavement	23,106.18
	7841	Teulon - Komarno R.M. of Rockwood 15.8 km	Grade Widening 8.4 km Gravel 8.4 km	346,198.65
	7879	P.T.H. No. 101 - 1.5 miles North of P.T.H. No. 67 R.M. of Rosser & Rockwood 19.0 km	Right-of-Way	1,533.74
	7888	North Jct. P.R. No. 231 - South of P.R. No. 324 L.G.D. of Armstrong 13.7 km	Preliminary Engineering	20,847.64
	7896	Netley Creek - E 28-17-2E. R.M. of Rockwood	Detour Offtake Drainage	8,816.16
7 & 101	7897	R.M. of Rosser	Manufacture & Install Guide Sign	5,912.50
8	7777	P.R. No. 324 - South Jct. P.T.H. No. 68 R.M. of Bifrost & Gimli 21.2 km	Preliminary Engineering	20,784.29

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
8	7806	North of P.R. No. 230 - P.R. No. 515 R.M. of St. Andrews 17.1 km	Preliminary Engineering Right-of-Way	$ 37,913.55
	7807	P.R. No. 515 - P.R. No. 229 R.M. of St. Andrews 30.7 km	Preliminary Engineering	65,295.37
	7889	P.R. No. 229 - P.R. No. 324 R.M. of Gimli 23.0 km	Preliminary Engineering Right-of-Way	5,919.25
9	7778	Winnipeg Beach - P.R. No. 231 R.M. of Gimli 16.0 km	Preliminary Engineering Right-of-Way	14,420.60
10	7736	U.S. Border - Boissevain R.M. of Morton 25.3 km	Bituminous Pavement 25.3 km	3,262,061.00
	7740	North Jct. P.R. No. 268 - Bell River Porcupine Forest Reserve & L.G.D. of Mountain 20.3 km	Grade Widening Shoulder Gravel	4,463.57
	7774	North Jct. P.R. No. 268 - 9.3 km South of P.R. No. 277 L.G.D. of Mountain 28.9 km	Preliminary Engineering Right-of-Way Utilities	8,712.60
	7775	South of Mafeking - Red Deer River L.G.D. of Mountain Unorganized Territory 27.8 km	Preliminary Engineering Right-of-Way Utilities	16,579.76
	7776	Red Deer River - Overflowing River R.M. of Swan River Unorganized Territory 35.9 km	Preliminary Engineering Right-of-Way Utilities	41,109.81
	7783	Assiniboine River - C.P.R. Overpass City of Brandon 0.8 km	Preliminary Engineering Right-of-Way	1,497.66

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
10	7786	North Boundary Riding Mountain National Park - North Service Roads R.M. of Dauphin 1.6 km	Preliminary Engineering Right-of-Way Utilities	$ 8,534.84
	7844	East of SE 1/4 Sec. 4-24-19W. At U.F.C.A. Access Road R.M. of Dauphin 0.5 km	Grade Widening Gravel	47,149.43
	7859	Thru Souris River Valley R.M. of Whitewater 5.3 km	Right-of-Way	13,970.15
	7866	Bell River - P.R. No. 277 Unorganized Territory 17.7 km	Grade Widening 17.7 km	1,209,282.67
	7905	18th Street - Victoria Avenue - Pacific Avenue City of Brandon 0.8 km	Preliminary Engineering	5,155.60
	7913	Town of Boissevain 2.1 km	Bituminous Pavement 1.0 km	60,045.50
	7919	18th Street - Pacific Avenue Loop City of Brandon	Right-of-Way	90,000.00
11	7761	P.R. No. 313 - McArthur Falls R.M. of Lac du Bonnet L.G.D. of Alexander 13.2 km	Grade Widening Gravel	64,938.10
	7805	P.R. No. 214 - P.R. No. 313 R.M. of Lac du Bonnet 8.7 km	Grade Widening 4.2 km Bituminous Pavement 4.2 km	3,073.36
	7809	P.R. No. 313 - McArthur Falls R.M. of Lac du Bonnet 14.0 km	Preliminary Engineering Right-of-Way Utilities	8,300.95
	7855	McArthur Falls - Pine Falls L.G.D. of Alexander 29.3 km	Preliminary Engineering	80,743.75
	7856	McArthur Falls - Great Falls L.G.D. of Alexander 7.2 km	Right-of-Way Utilities	583.02

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
12	7748	Vicinity of Ste. Anne R.M. of Ste. Anne, Tache & Village of Ste. Anne 7.1 km	Concrete Bituminous Pavement	$2,870,021.24
16	7746	Northwest of Macdonald R.M. of Portage la Prairie & Westbourne 14.0 km	Bituminous Pavement 14.0 km	2,929,573.89
	7787	P.T.H. No. 5 - P.R. No. 466 R.M. of Langford, Odanah & Town of Neepawa 13.0 km	Preliminary Engineering Right-of-Way	107,370.40
	7825	P.T.H. No. 1 - Northwesterly R.M. of Portage la Prairie 14.2 km	Bituminous Pavement	2,162.77
	7876	Neepawa - West R.M. of Langford & Odanah 11.2 km	Grade 4.0 km Base Course 4.0 km	505,246.02
16 & 607	7804	Newdale Access R.M. of Harrison	Preliminary Engineering	457.09
19	7858	P.T.H. No. 5 - West R.M. of McCreary 4.8 km	Calcium Chloride 4.8 km	7,953.75
20	7872	Camperville L.G.D. of Mountain	Shoulder Improvements	5,575.90
23	7792	P.R. No. 431 - P.T.H. No. 34 R.M. of Lorne 19.2 km	Preliminary Engineering	15,969.14
	7798	West of Morris N of NE 1/4 Sec. 32-4-1E. R.M. of Morris	Detour & Approaches	501.78
	7801	Deerwood - P.R. No. 431 R.M. of Thompson & Lorne	Preliminary Engineering	1,866.24
	7863	West of P.T.H. No. 5 R.M. of Argyle & Strathcona 4.1 km	Grade Improvements 2.6 km Base Course 2.6 km A.S.T. 2.6 km	231,301.34

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
26	7768	West Jct. P.R. No. 248 - East Jct. P.T.H. No. 1 R.M. of St. Francois Xavier 24.16 km	Preliminary Engineering	$ 32,746.70
	7815	River Lots 213 - 217 Parish of Baie St. Paul R.M. of St. Francois Xavier	River Bank Stabilization	687.18
	7848	East of P.T.H. No. 1A - P.R. No. 430 R.M. of Portage la Prairie 18.5 km	Preliminary Engineering	78,749.79
34	7833	North of P.T.H. No. 23 R.M. of Lorne 3.2 km	Grade Improvements Base Course A.S.T.	74,126.10
41	7840	P.R. No. 545 - Assiniboine River R.M. of Ellice 4.9 km	Preliminary Engineering Right-of-Way Utilities	8,094.39
	7843	Assiniboine River - P.R. No. 545 R.M. of Ellice 3.7 km	Calcium Chloride 3.7 km	6,887.61
42	7788	Birtle Main Street Town of Birtle 0.7 km	Preliminary Engineering	25,606.18
44	7760	Bog River - Rennie Unorganized Territory 14.0 km	Base Course 14.0 km	832,990.53
	7796	East of P.T.H. No. 59 - East of P.R. No. 601 R.M. of St. Clements & Brokenhead 26.0 km	Preliminary Engineering Right-of-Way	62,562.94
44 & 49	7750	R.M. of St. Clements	Highway Signing	3,685.75

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
49 & 83	7741	Saskatchewan Boundary - South of Kenville R.M. of Swan River 21.8 km	Grade Widening Shoulder Gravel	$ 6,838.89
50	7769	P.T.H. No. 16 - Langruth R.M. of Westbourne & Lakeview 25.4 km	Preliminary Engineering Right-of-Way Utilities	93,759.68
	7835	P.R. No. 265 North - North Boundary R.M. of Lakeview R.M. of Lakeview 13.6 km	Preliminary Engineering Right-of-Way Utilities	2,995.67
	7845	P.T.H. No. 16 - Langruth R.M. of Lakeview & Westbourne 25.6 km	Grade Widening 19.0 km Gravel 19.0 km	893,330.71
	7885	N. of NW 1/4 Sec. 31-20-14 R.M. of McCreary	Culvert Installation	4,191.95
52	7773	East Boundary R.M. of Hanover - West Limit Steinbach R.M. of Hanover Town of Steinbach 4.8 km	Preliminary Engineering	11,911.00
59	7749	South of P.R. No. 508 - Brokenhead I.R. R.M. of St. Clements 20.6 km	Bituminous Pavement	3,499,932.60
	7794	North of Libau R.M. of St. Clements 5.6 km	Grading	59,265.05
	7854	North of Libau - South of P.T.H. No. 12 R.M. of St. Clements Brokenhead I.R. No. 4 20.4 km	Preliminary Engineering Right-of-Way Utilities	25,205.81
	7893	Cooks Creek Bridge R.M. St. Clements	Detour	22,813.71
	7898	R.M. of St. Clements	Manufacture Guide Sign	25,137.43
	7912	P.T.H. No. 59 South & Prairie Grove Road City of Winnipeg	Bridge Survey	6,949.21

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
67	7770	P.T.H. No. 7 - South Jct. P.R. No. 236 R.M. of Rockwood Town of Stonewall 6.4 km	Preliminary Engineering Right-of-Way Utilities	$ 518.91
	7834	P.T.H. No. 9 - P.R. No. 230 R.M. of St. Andrews 2.4 km	Preliminary Engineering Right-of-Way Utilities	4,141.80
75	7747	P.R. No. 429 - South of Ste. Agathe R.M. of Ritchot 14.8 km	Grade Gravel	1,150,521.67
	7771	Morris - P.R. No. 305 R.M. of Morris & Ritchot 27.4 km	Preliminary Engineering	48,975.04
	7772	P.R. No. 429 - South of P.R. No. 305 R.M. of Ritchot 16.9 km	Preliminary Engineering Right-of-Way Utilities	158,951.67
	7780	South Limit of Winnipeg - P.R. No. 429 R.M. of Ritchot 8.0 km	Base Course 8.1 km Concrete Pavement	2,564,799.53
	7909	South Boundary City of Winnipeg - P.R. No. 429 R.M. of Ritchot 7.7 km	Preliminary Engineering Right-of-Way	8,225.16
	7916	P.R. No. 429 - South of P.R. No. 420 R.M. of Ritchot 8.7 km	Concrete Pavement 8.7 km Base Course 8.7 km Shoulder	102,439.56
83	7742	South of Kenville - 2nd Street South R.M. of Swan River 18.7 km	Grade Widening Shoulder Repair	156,299.59
	7758	P.R. No. 594 - P.R. No. 363 R.M. of Shell River 8.7 km	Preliminary Engineering	918.88

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
83	7830	South Boundary R.M. of Miniota - P.T.H. No. 24 R.M. of Miniota 9.3 km	Preliminary Engineering	$ 8,699.08
	7851	North Jct. P.R. No. 251 - South Jct. P.T.H. No. 3 R.M. of Arthur 10.0 km	Grade Widening 10.0 km	517,406.23
	7883	U.S. Border - North Jct. P.R. No. 351 - North Jct. P.T.H. No. 3 - North District Boundary R.M. of Arthur & Albert 42.6 km	Preliminary Engineering	6,453.08
100	7817	River Lot 152 St. Mary's Road City of Winnipeg	Demolition of Existing Buildings	848.51
	7873	Ste. Anne's Road City of Winnipeg	Right-of-Way	54,618.54
	7880	St. Mary's Road City of Winnipeg	Right-of-Way	279,000.00
	7892	Interchange at P.T.H. No. 59 South & Roblin Boulevard City of Winnipeg	Landscape Development	55,853.20
100 & 3	7871	Vicinity of Oak Bluff City of Winnipeg R.M. of Macdonald 9.5 km	Bituminous Pavement	12,073.31
100 & 101	7779	Vicinity of Oak Bluff & Saskatchewan Avenue City of Winnipeg & R.M. of Macdonald 9.1 km	Bituminous Pavement	2,170,136.73
101	7890	P.T.H. No. 59 - P.T.H. No. 9 R.M. of East St. Paul & West St. Paul 3.9 km	Preliminary Engineering Median Barrier Bituminous Pavement 3.9 km	78,889.67

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
101	7915	P.T.H. No. 9 - P.T.H. No. 59 R.M. of East St. Paul & West St. Paul 2.5 km	Median Barrier Bituminous Pavement 2.5 km	$ 76,243.40
	7751	Interchanges of P.T.H. No. 101 & 9 & P.T.H. No. 101 & P.R. No. 204 R.M. of East St. Paul & R.M. of West St. Paul	Manufacture & Install Guide Signs	48,791.63
Miscellaneous				
	7700	Various Highways	Right-of-Way	33,539.89
	7701	District 1	Engineering Expenses	25,548.18
	7702	District 2	Engineering Expenses	7,432.78
	7703	District 3	Engineering Expenses	5,062.00
	7704	District 4	Engineering Expenses	9,042.03
	7705	District 5	Engineering Expenses	11,625.07
	7706	District 6	Engineering Expenses	3,454.50
	7707	District 7	Engineering Expenses	1,978.71
	7708	District 8	Engineering Expenses	21,642.47
	7709	District 9	Engineering Expenses	3,886.66
	7710	District 10	Engineering Expenses	24,527.10
	7711	District 11	Engineering Expenses	5,503.90
	7712	District 12	Engineering Expenses	23,527.67
	7713	Materials Division	Engineering Expenses	193,623.81
	7717	Various Highways	Expenses for Right-of-Way	646,622.50
	7718	Various Highways	Engineering Audit Survey	54,607.26

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
Miscellaneous				
	7720	Various	Advertising Highway Projects	$ 41,416.97
	7721	District 1	Surplus Culverts	2,027.15CR.
	7722	District 2	Surplus Culverts	9,093.49CR.
	7723	District 3	Surplus Culverts	1,351.00
	7725	District 5	Surplus Culverts	3,136.27CR.
	7726	District 6	Surplus Culverts	515.14CR.
	7727	District 7	Surplus Culverts	4,756.05
	7728	District 8	Surplus Culverts	14,689.19CR.
	7729	District 9	Surplus Culverts	3,841.15
	7731	District 11	Surplus Culverts	1,237.85CR.
	7752	Wilkes Avenue Yard	Centralization of Aluminum Material	1,781.51
	7753	Various Training Centres	Training Expenses Construction Personnel	58,931.22
	7755	Various	Hazard Removal	148,414.53
	7759	Proposed New Route P.R. No. 235 - P.R. No. 278 L.G.D. of Alonsa 16.3 km	Feasibility Study	24,891.80
	7793		Proceeds of Contract Disbursement Act	1,238.84
	7797	Brandon East Access R.M. of Cornwallis & City of Brandon	Traffic Study	8,858.47
	7816	Various, Vicinity of Selkirk R.M. of St. Andrews, St. Clements & West St. Paul	Corridor Study	61,759.51
	7831	Various	Illumination	104,120.00
	7832	New Red River Crossing R.M. of St. Andrews & St. Clements	Preliminary Engineering Right-of-Way	37,437.06

Table No. C2

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
Miscellaneous				$
	7852	Various	Install Automatic Railway Crossing Protection	17,459.04
	7857	Various	Delineation	7,189.05
	7861	Various	Installation of Rumble Strips	7,590.62
	7862	Various	Manufacture Spec. Signs	8,058.00
	7875	Various, Brandon Area R.M. of Brandon	Traffic Study	13,069.98
	7914	Computer Services	Roadway Design Use of Computer	20,100.00
	7918	Various	Purchase of Construction Trailers	134,328.50
	Various Work Orders - Incidental Amounts			980.50
	Bridge Projects (for details see Table No. B1)			2,886,018.12
			*449.9	$40,952,458.17

* Bituminous Pavement	73.8
Calcium Chloride	8.5
Base Course	60.3
Grading	99.8
Gravelling	61.3
Concrete Pavement	8.7
Asphalt Surface Treatment	2.6
Seal Coat	134.9
	449.9

HIGHWAY CONSTRUCTION
PROVINCIAL ROAD
APPROPRIATION 15-8A

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
200	6798	North of Roseau River - South Junction P.R. No. 217 R.M. of Franklin 11.1 km	Preliminary Engineering Right-of-Way Utilities	$ 10,772.47
200 & 246	6565	P.R. No. 205 - P.R. No. 305 R.M. of Morris & Ritchot 13.2 km	Preliminary Engineering Right-of-Way Utilities	4,818.79
201	6613	Osterwick - P.R. No. 432 R.M. of Stanley 14.5 km	Preliminary Engineering	18,127.12
	6633	P.T.H. No. 31 - P.R. No. 242 R.M. of Pembina 22.6 km	Preliminary Engineering	12,102.35
	6634	P.R. No. 336 - Gnadenthal R.M. of Rhineland 10.0 km	Construction Gravel	4,466.89
	6723	P.R. No. 432 - P.T.H. No. 31 R.M. of Stanley & Pembina 16.0 km	Preliminary Engineering	50,494.57
	6775	P.T.H. No. 32 - Gnadenthal R.M. of Stanley & Rhineland 9.9 km	Grade (9.9 km) Gravel (9.9 km)	482,423.72
204	6627	P.R. No. 509 - Selkirk Bridge R.M. of St. Clements 2.5 km	Preliminary Engineering	833.60
205	6570	West of P.T.H. No. 59 - P.R. No. 246 R.M. of De Salaberry & Morris 16.5 km	Preliminary Engineering Right-of-Way Utilities	123,356.06

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
205	6614	P.R. No. 422 - East Junction P.R. No. 332 R.M. of Morris 12.9 km	Preliminary Engineering	$ 17,681.14
	6769	West of St. Pierre - P.R. No. 200 R.M. of De Salaberry 17.3 km	Grade (17.3 km) Gravel (17.3 km)	654,439.12
206	6569	West Junction P.R. No. 207 - P.T.H. No. 1 R.M. of Tache 4.9 km	Preliminary Engineering Right-of-Way Utilities	171,744.88
	6786	T.C.H. - P.T.H. No. 15 R.M. of Springfield & Tache 11.6 km	Base Course A.S.T.	816.09
209	6666	Roseau River S.W. 1/4 Sec. 2-2-6E L.G.D. of Stuartburn	Gravel Bituminous Surface Bridge Approach	5,648.08
	6771	P.R. No. 201 - Gardenton L.G.D. of Stuartburn 8.0 km	Calcium Chloride (8.0 km)	12,349.02
	6872	P.R. No. 201 - P.T.H. No. 59 R.M. of Franklin & L.G.D. of Stuartburn 14.5 km	Utilities	7,467.63
210	6562	P.T.H. No. 12 - P.R. No. 206 R.M. of Ste. Anne & Tache 12.1 km	Preliminary Engineering Utilities Right-of-Way	31,055.67
211	6793	P.T.H. No. 11 - Pinawa R.M. of Lac du Bonnet L.G.D. of Pinawa 14.0 km	Preliminary Engineering Right-of-Way	8,737.38
212	6542	P.T.H. No. 44 - P.T.H. No. 59 R.M. of St. Clements 8.4 km	Grade Gravel	53,811.57

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
212	6624	P.T.H. No. 44 - Cooks Creek R.M. of Springfield & St. Clements 8.1 km	Grade Preparation Base Course A.S.T.	$ 1,326.28
	6788	P.T.H. No. 44 - P.T.H. No. 59 R.M. of St. Clements 8.4 km	Depositing & Stockpiling Aggregate	37,800.00
212 & 213	6543	P.R. No. 206 - Cooks Creek R.M. of Springfield 8.1 km	Grade Base Course	168,097.80
	6700	P.R. No. 206 - Cooks Creek R.M. of Springfield 8.1 km	Preliminary Engineering Right-of-Way Utilities	5,892.70
	6789	Cooks Creek - P.R. No. 206 R.M. of Springfield 8.1 km	Depositing & Stockpiling Aggregate	25,723.29
	6866	P.R. No. 206 - Cooks Creek R.M. of Springfield 8.2 km	Base Course	752.85
213	6630	P.R. No. 212 - P.T.H. No. 12 R.M. of Springfield 9.9 km	Preliminary Engineering Right-of-Way Utilities	19,952.93
215	6732	Town of Beausejour 1.6 km	Preliminary Engineering	4,677.45
216	6876	Through New Bothwell R.M. of Hanover 1.3 km	Base Course (1.3 km) Curb & Gutter	15,908.16
217	6567	P.R. No. 246 - P.R. No. 200 R.M. of De Salaberry, Franklin & Montcalm 11.5 km	Preliminary Engineering Right-of-Way Utilities	14,121.50
217 & 218	6743	Arnaud - St. Malo R.M. of Franklin & De Salaberry 16.9 km	Preliminary Engineering	58,821.03

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
220	6593	P.T.H. No. 9 - P.R. No. 409 R.M. of West St. Paul 6.2 km	Preliminary Engineering Right-of-Way Utilities	$ 17,980.32
	6811	P.T.H. No. 9 - P.T.H. No. 8 R.M. of West St. Paul 2.9 km	Grade (2.9 km) Bituminous Pavement (2.9 km)	675,127.17
221	6756	P.R. No. 412 - P.R. No. 248 R.M. of Rosser 10.3 km	Preliminary Engineering Right-of-Way Utilities	3,203.16
222	6678	Arnes - Hnausa R.M. of Bifrost & Gimli 11.3 km	Grade Gravel	59,289.01
	6720	Arnes - Hnausa R.M. of Bifrost & Gimli 11.3 km	Calcium Chloride (11.3 km)	15,145.30
	6826	Gimli - Camp Morton R.M. of Gimli 8.4 km	Preliminary Engineering	17,183.81
224	6740	P.R. No. 325 - Snake Creek Bridge, Pequis Indian Reserve No. 18 11.3 km	Calcium Chloride (11.3 km)	38,509.16
	6835	P.R. No. 325 - Dallas Pequis Indian Reserve No. 18 23.9 km	Preliminary Engineering	34,860.94
226	6606	P.T.H. No. 68 - P.R. No. 329 R.M. of Bifrost 10.0 km	Base Course A.S.T. (10.0 km)	57,739.45
226 & 233	6840	P.R. No. 329 - NE Section 9-24-12 R.M. of Bifrost 14.7 km	Preliminary Engineering Right-of-Way	16,539.04
227	6763	P.R. No. 248 - P.R. No. 430 R.M. of Woodlands 19.4 km	Calcium Chloride (19.4 km)	48,437.33

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
227 & 248	6667	P.T.H. No. 6 - P.T.H. No. 26 R.M. of St. Francois Xavier, Rosser & Woodlands 24.5 km	Base Course A.S.T.	$142,374.94
229	6695	P.T.H. No. 9 - P.T.H. No. 8 R.M. of St. Andrews, Gimli & Town of Winnipeg Beach 3.3 km	Grade (3.3 km) Base Course (3.3 km)	495,017.04
231	6721	P.T.H. No. 7 - P.T.H. No. 17 L.G.D. of Armstrong 21.8 km	Calcium Chloride (21.8 km)	19,408.34
233	6710	Park Gate - Gull Harbour Hecla Provincial Park & Unorganized Territory 22.6 km	Calcium Chloride (22.6 km)	35,368.46
233 & 234	6525	North of Riverton R.M. of Bifrost & Unorganized Territory 28.3 km	Bituminous Pavement	1,904,682.82
233 & 326	6837	P.R. No. 329 Northerly R.M. of Bifrost 8.1 km	Preliminary Engineering	5,506.08
234	6526	P.R. No. 325 - Beaver Creek R.M. of Bifrost & Unorganized Territory 23.3 km	Grade Gravel	1,300,391.74
	6585	P.R. No. 325 - Beaver Creek R.M. of Bifrost & Unorganized Territory 23.4 km	Preliminary Engineering Right-of-Way	16,288.94
	6586	Beaver Creek - Calders Dock Unorganized Territory 25.8 km	Preliminary Engineering	55,919.04
	6699	P.R. No. 233 South Junction - P.R. No. 325 R.M. of Bifrost 17.7 km	Grade (17.7 km) Gravel (17.7 km)	204,950.96

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
234 & 325	6584	P.R. No. 233 - P.R. No. 325 N. of Sec. 6-26-4E R.M. of Bifrost 18.1 km	Preliminary Engineering Right-of-Way	$ 30,314.94
236	6759	P.T.H. No. 67 - P.R. No. 517 R.M. of Rockwood 12.9 km	Calcium Chloride (12.9 km)	30,258.73
238	6687	South Junction P.T.H. No. 9 - Stevens Avenue Lockport R.M. of St. Andrews 10.0 km	Calcium Chloride (10.0 km)	38,214.32
239	6794	P.T.H. No. 6 - Steep Rock L.G.D. of Grahamdale 20.2 km	Base Course (10.7 km) A.S.T. (10.7 km)	347,834.53
240	6551	P.T.H. No. 1 - P.R. No. 331. R.M. of Portage la Prairie 2.1 km	Preliminary Engineering	3,801.64
	6652	P.T.H. No. 3 - NE 1/4 Sec. 33-4-7W. R.M. of Pembina & Thompson 18.5 km	Grade Gravel	4,631.18
	6658	P.T.H. No. 2 - S. Limit St. Claude, St. Claude Access & Haywood Access R.M. of Grey 6.0 km	Bituminous Recap	5,196.65
	6713	P.T.H. No. 2 - NE Corner Section 28-9-7W R.M. of Grey 12.9 km	Preliminary Engineering Right-of-Way Utilities	27,563.56
	6846	P.T.H. No. 1 - Fifth St. S.E. City of Portage la Prairie R.M. of Portage la Prairie 1.5 km	Preliminary Engineering	506.94
242	6649	P.T.H. No. 2 - NE Corner Section 8-9-9W. R.M. of South Norfolk 6.8 km	Preliminary Engineering Right-of-Way Utilities	45,842.34

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
242	6815	E. Jct. P.T.H. No. 2 - N. of P.R. No. 244 R.M. of South Norfolk 11.0 km	Grade (11.0 km) Gravel (11.0 km)	$547,511.56
	6818	P.T.H. No. 3 Northerly R.M. of Pembina 4.0 km	Right-of-Way	5,400.19
243	6615	P.T.H. No. 30 - P.R. No. 248 R.M. of Rhineland 14.5 km	Preliminary Engineering	3,612.45
	6616	P.T.H. No. 75 - P.T.H. No. 30 R.M. of Rhineland & Montcalm	Preliminary Engineering	11,572.80
	6827	P.R. No. 243 - NE Corner Section 14-1-5W. R.M. of Stanley	C.M.P. Bridge Replacement	12,179.86
245	6619	W. Jct. P.R. No. 242 - NE Corner Section 31-6-10W. R.M. of Lorne & South Norfolk 7.9 km	Preliminary Engineering Right-of-Way Utilities	3,304.08
	6653	Boyne River North of Section 24-6-5W. R.M. of Dufferin	Stream Diversion & Approaches	1,830.48
246	6566	P.T.H. No. 23 - P.R. No. 217 R.M. of Montcalm 9.7 km	Preliminary Engineering	3,425.23
	6797	P.R. No. 205 - P.T.H. No. 23 R.M. of Morris & Montcalm 13.1 km	Preliminary Engineering Right-of-Way Utilities	15,643.97
247	6603	La Salle - P.R. No. 330 West R.M. of Macdonald 1.0 km	Grade Gravel Calcium Chloride (1.0 km)	5,243.39
	6860	P.R. No. 247 W. of La Salle R.M. of Macdonald	Preliminary Engineering Right-of-Way Utilities	9,290.12

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
248	6617	NE Corner Section 3-8-3W. - P.T.H. No. 2 R.M. of Grey 11.3 km	Preliminary Engineering	$ 5,459.79
	6654	P.T.H. No. 3 - P.R. No. 305 R.M. of Dufferin 11.8 km	Preliminary Engineering	4,759.28
	6661	S. of P.R. No. 305 E. of Section 16-7-3W. R.M. of Dufferin	Detour Bridge Approaches	24,903.70
	6685	Vicinity of Marquette R.M. of Woodlands & St. Francois Xavier 12.0 km	Grade (12.0 km) Gravel (12.0 km)	334,389.77
250	6635	P.R. No. 349 - E. Jct. P.T.H. No. 1 R.M. of Whitehead 11.5 km	Preliminary Engineering Right-of-Way Utilities	1,727.22
	6642	P.T.H. No. 24 - Northerly R.M. of Blanshard & Saskatchewan 13.6 km	Base Course Bituminous Pavement	9,577.93
	6645	P.T.H. No. 16 - P.T.H. No. 45 R.M. of Harrison 19.7 km	Preliminary Engineering	5,633.78
	6665	Rivers North R.M. of Daly, Blanshard & Town of Rivers 12.1 km	Bituminous Pavement (12.1 km)	1,212,705.93
	6784	P.T.H. No. 1 Northerly R.M. of Whitehead & Daly 8.9 km	Preliminary Engineering Right-of-Way Utilities	75,178.50
	6799	P.T.H. No. 1 Northerly R.M. of Whitehead & Daly 9.0 km	Grade (9.0 km) Gravel (9.0 km)	499,286.13
254	6608	P.T.H. No. 83 - S. Jct. P.R. No. 478 R.M. of Shellmouth, Boulton, Russell & Silver Creek 10.7 km	Preliminary Engineering Right-of-Way Utilities	2,993.64

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
254	6669	P.R. No. 476 - P.R. No. 478 R.M. of Silver Creek 11.6 km	Preliminary Engineering Right-of-Way Utilities	$ 14,405.46
	6691	Rossburn South R.M. of Rossburn 8.7 km	Base Course (2.0 km) A.S.T. (2.0 km)	275,042.17
	6704	Oak Lake North R.M. of Sifton 2.9 km	Preliminary Engineering Right-of-Way Utilities	3,119.46
	6813	P.R. No. 447 - P.R. No. 345 R.M. of Brenda & Cameron 8.1 km	Spot Grade Improvements	78,080.99
	6830	Oak Lake Beach - S. District Boundary R.M. of Sifton 3.3 km	Utilities	11,094.10
	6841	P.R. No. 254 - Plum Creek R.M. of Sifton 4.9 km	Drainage	116,507.13
255	6705	P.R. No. 254 - P.T.H. No. 83 R.M. of Sifton & Wallace 18.0 km	Preliminary Engineering	3,463.08
256	6706	East Jct. P.T.H. No. 2 - South of Cromer R.M. of Pipestone 14.9 km	Preliminary Engineering Right-of-Way	7,430.87
	6707	P.R. No. 467 - P.T.H. No. 41 R.M. of Archie 21.3 km	Fencing Utilities	45,692.94
	6802	Section 32-10-28W. R.M. of Wallace	Right-of-Way	1,618.15
	6817	Broadview Subdivision - C.P.R., Town of Elkhorn 1.0 km	Base Course (1.0 km) Bituminous Pavement (1.0 km)	124,127.43
260	6679	South of Alonsa North of Section 6-21-11W. L.G.D. of Alonsa 2.3 km	Grade (2.3 km) Gravel (2.3 km)	143,398.71

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
260	6696	NE Corner Section 33-16-12W. - South Jct. P.R. No. 261 R.M. of Westbourne & Glenella 18.1 km	Base Course A.S.T.	$ 300.00
	6770	Jordan Drain - Approaches R.M. of Westbourne	Grading Base Course A.S.T.	70,050.02
260 & 261	6553	South Jct. P.R. No. 261 NE - E. Boundary R.M. of Glenella 6.4 km	Preliminary Engineering Right-of-Way Utilities	26,082.19
261	6522	West Boundary L.G.D. of Alonsa - East L.G.D. of Alonsa 10.2 km	Grade Gravel	79,566.96
	6541	Glenella - P.R. No. 260 R.M. of Glenella 10.8 km	Base Course A.S.T.	477,097.18
	6824	Glenella Drain - Section 28-18-13W. R.M. of Glenella	Paving Traffic Control	2,600.91
262	6620	P.T.H. No. 10 - P.T.H. No. 16 & 16A R.M. of Odanah 18.1 km	Preliminary Engineering Right-of-Way Utilities	10,240.08
263	6643	P.R. No. 262 - P.T.H. No. 10 R.M. of Clanwilliam & L.G.D. of Park 20.2 km	Preliminary Engineering	2,117.60
265	6554	1 mile East of Langruth - 1 mile West R.M. of Lakeview 3.3 km	Preliminary Engineering Right-of-Way Utilities	2,540.76
	6646	South Jct. P.T.H. No. 5 - P.R. No. 562 R.M. of Rosedale 13.9 km	Gravel	10,513.18

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
265	6728	P.T.H. No. 5 - East District Boundary R.M. of Rosedale 5.0 km	Preliminary Engineering Right-of-Way Utilities	$ 551.84
266	6572	Birch River South L.G.D. of Mountain 1.6 km	Preliminary Engineering	6,522.63
	6729	North of Bowsman River - NE Corner Sec. 18-38-26W. R.M. of Minitonas 3.4 km	Preliminary Engineering	12,931.18
	6774	Birch River - 1 mile South L.G.D. of Mountain 1.6 km	Grade Gravel	13,382.95
266 & 587	6535	SE Corner Section 2-38-27W. - North of Bowsman River R.M. of Minitonas & Swan River 3.6 km	Grade Gravel	224,679.51
267	6548	P.T.H. No. 10 - North Jct. P.R. No. 274 R.M. of Gilbert Plains & Ethelbert 8.9 km	Preliminary Engineering Right-of-Way Utilities	4,693.41
	6680	Vicinity of South Jct. P.R. No. 276 - E. of Section 28-27-22W. R.M. of Gilbert Plains 2.3 km	Base Course (2.3 km) A.S.T. (2.3 km)	161,733.87
268	6805	P.T.H. No. 10 - P.R. No. 587 R.M. of Minitonas 14.7 km	Base Course A.S.T.	82,246.35
	6536	P.T.H. No. 10 - P.R. No. 587 R.M. of Minitonas 14.7 km	Grade Gravel	1,311.41
269	6517	P.R. No. 490 - P.R. No. 276 Unorganized Territory 10.3 km	Grade Gravel	63,351.24

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
269	6681	South Jct. P.T.H. No. 20 - South Jct. P.R. No. 364 R.M. of Mossey River 8.2 km	Grade (8.2 km) Base Course (8.2 km) A.S.T. (8.2 km)	$600,878.25
	6693	P.R. No. 490 - P.R. No. 276 Unorganized Territory 10.5 km	Preliminary Engineering Right-of-Way Utilities	6,816.00
270	6605	West of Onanole L.G.D. of Park 3.6 km	Grade Gravel	9,298.05
	6641	P.R. No. 263 - P.R. No. 359 L.G.D. of Park 3.3 km	Preliminary Engineering Right-of-Way Utilities	3,301.85
271	6573	P.T.H. No. 20 - West L.G.D. of Mountain 8.1 km	Preliminary Engineering Right-of-Way Utilities	12,666.18
	6773	P.T.H. No. 20 - Westerly L.G.D. of Mountain 7.4 km	Grade (7.4 km) Gravel (7.4 km)	406,295.49
272	6537	P.T.H. No. 22 North Unorganized Territory 11.0 km	Grade Gravel	76,553.79
	6574	P.T.H. No. 20 - Village of Duck Bay L.G.D. of Mountain 21.6 km	Preliminary Engineering Right-of-Way Utilities	22,652.21
	6772	Duck Bay - Southerly Unorganized Territory 10.7 km	Grade (10.7 km) Gravel (10.7 km)	586,975.17
	6777	P.T.H. No. 20 - Duck Bay Unorganized Territory 21.0 km	Calcium Chloride (21.0 km)	17,355.38
273	6594	P.T.H. No. 10 - Ukraina R.M. of Ethelbert, Mossey River & Dauphin 7.6 km	Preliminary Engineering Right-of-Way Utilities	2,050.00

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
273	6595	P.T.H. No. 20 - Ukraina R.M. of Mossey River & Dauphin 16.5 km	Preliminary Engineering	$ 50,908.21
275	6575	P.T.H. No. 10A - East Jct. P.R. No. 588 R.M. of Swan River 13.2 km	Preliminary Engineering Right-of-Way Utilities	5,955.85
276	6523	Manipogo Provincial Park Entrance - North Boundary of S.W. 1/4 Sec. 5-32-15W. R.M. of Lawrence & Unorganized Territory 28.4 km	Grade Widening Base Course Bituminous Pavement Stockpiling Aggregate	856,428.10
	6596	P.R. No. 328 - S. Boundary Waterhen I.R. Unorganized Territory 10.8 km	Preliminary Engineering	16,176.06
	6676	P.T.H. No. 5 - North R.M. of Ste. Rose 3.7 km	Seal Coat (3.7 km)	18,418.52
	6682	P.R. No. 328 - South Unorganized Territory 12.6 km	Grade Widening (6.0 km) Base Course (6.0 km) Bituminous Pavement (6.0 km)	599,170.29
277	6836	Homestead Creek Unorganized Territory	Shoo-Fly Detour Bridge Approaches & Deck	17,273.56
278	6518	N. Limit Section 18-23-11W. - N. Limit Township 22 L.G.D. of Alonsa 8.4 km	Base Course Bituminous Pavement	282,729.51
	6521	S. of Section 3-22-11W. - NE Cor. Section 33-22-11W. L.G.D. of Alonsa 8.7 km	Base Course Bituminous Pavement	362,166.79
302	6711	P.T.H. No. 15 - North Boundary R.M. of Springfield 9.7 km	Right-of-Way	21,566.91

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
303	6564	1 mile E. of P.T.H. No. 12 - 3 miles W. of P.T.H. No. 12 R.M. of Hanover 6.5 km	Preliminary Engineering Right-of-Way Utilities	$ 37,662.00
305	6568	P.T.H. No. 59 - Rat River Bridge R.M. of Hanover & Ritchot	Preliminary Engineering Right-of-Way Utilities	40,280.38
	6655	P.T.H. No. 2 - NE Corner Section 14-9-8W. R.M. of South Norfolk 11.5 km	Preliminary Engineering Right-of-Way Utilities	772.89
	6656	P.T.H. No. 3 - West Jct. P.R. No. 248 R.M. of Dufferin & Macdonald 16.1 km	Preliminary Engineering	40,788.21
	6657	P.T.H. No. 75 - West R.M. of Ritchot & Macdonald 3.3 km	Preliminary Engineering Right-of-Way Utilities	11,023.68
306	6785	NE Corner Sec. 21-11-6E. R.M. of Springfield	Purchase & Install Culvert	17,965.41
307	6779	Park Gate - Rennie River Whiteshell Provincial Park 26.4 km	Preliminary Engineering	546.24
308	6757	Moose Lake Entrance - East Braintree L.G.D. of Reynolds & N.W. Angle Forest Reserve 65.4 km	Calcium Chloride (65.4 km)	25,479.95
313 & 502	6719	Vicinity of Lac du Bonnet R.M. of Lac du Bonnet 5.5 km	Grade Widening Bituminous Pavement	4,151.80
317	6628	P.T.H. No. 59 - P.T.H. No. 12, R.M. of St. Clements & Brokenhead 15.5 km	Preliminary Engineering Right-of-Way Utilities	7,392.00

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
318	6850	Bridge Approach - Tourond Drain - N. Sec. 36-6-4E. R.M. of De Salaberry & Hanover	Right-of-Way Grade Gravel	$ 62,501.97
319	6782	P.T.H. No. 50 - Patricia Beach L.G.D. of Alexander	Calcium Chloride	7,109.47
320	6625	Clandeboye Turn-Off - Netley Creek R.M. of St. Andrews 8.2 km	Preliminary Engineering	6,841.01
322	6760	P.T.H. No. 6 - P.T.H. No. 67 R.M. of Rockwood 7.0 km	Calcium Chloride (7.0 km)	20,120.34
325	6795	Southwest of Ashern R.M. of Siglunes 16.3 km	Base Course (16.3 km)	741,327.92
	6806	P.T.H. No. 6 - P.R. No. 23 R.M. of Siglunes 30.0 km	Grade Widening Gravel	21,913.11
	6833	P.T.H. No. 6 - P.R. No. 235 R.M. of Siglunes 30.0 km	Right-of-Way	116,059.40
	6870	Vicinity of Oakview R.M. of Siglunes 13.7 km	Base Course (4.1 km)	240,682.00
328	6587	Waterhen R. - P.T.H. No. 6 Unorganized Territory L.G.D. of Grahamdale 62.9 km	Preliminary Engineering	21,117.17
	6834	Waterhen R. - Proulx Creek Unorganized Territory 23.7 km	Right-of-Way	5,349.47
329	6588	P.T.H. No. 8 - P.R. No. 326 R.M. of Bifrost	Preliminary Engineering	90,775.46
	6801	P.R. No. 326 - P.T.H. No. 8 R.M. of Bifrost 13.1 km	Grade (13.1 km) Gravel (13.1 km)	203,771.56

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
329	6831	P.R. No. 326 - P.R. No. 226 R.M. of Bifrost 6.6 km	Preliminary Engineering Right-of-Way	$ 2,927.97
	6832	P.R. No. 226 - P.T.H. No. 17 R.M. of Bifrost L.G.D. of Fisher 21.6 km	Preliminary Engineering	15,504.06
334	6722	King Drain - East of Section 4-8-1E. R.M. of Macdonald	Detour Approaches	19,542.59
338	6724	North of P.T.H. No. 3 - P.T.H. No. 23 R.M. of Stanley & Thompson 16.9 km	Preliminary Engineering	68,835.35
340	6601	P.T.H. No. 1 - P.T.H. No. 2 R.M. of Elton, Cornwallis, South Cypress & Oakland 41.9 km	Preliminary Engineering	5,005.46
344	6540	1st Street - 18th Street City of Brandon 1.6 km	Grade Base Course Bituminous Pavement	1,063,637.94
	6674	Wawanesa - North of P.R. No. 453 R.M. of Oakland & Cornwallis 29.3 km	Preliminary Engineering Right-of-Way	30,052.48
352	6556	P.T.H. No. 16 - Arden R.M. of Lansdowne 8.1 km	Preliminary Engineering Right-of-Way Utilities	44,355.80
	6803	Arden - P.R. No. 575 R.M. of Lansdowne 19.3 km	Preliminary Engineering Right-of-Way Utilities	471.07
354	6622	P.R. No. 355 - NE Section 35-15-22W. R.M. of Blanshard 10.0 km	Preliminary Engineering Right-of-Way Utilities	3,623.59
	6703	P.T.H. No. 21 Northerly R.M. of Woodworth, Daly & Whitehead 9.0 km	Grade (9.0 km) Gravel (9.0 km)	398,158.71

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
354	6857	Strathclair - NE Section 35-15-22W. R.M. of Strathclair 8.2 km	Preliminary Engineering	$ 20,577.70
354 & 355	6621	E. of Cardale - P.R. No. 470 R.M. of Blanshard & Hamiota 18.1 km	Right-of-Way Utilities	59,412.68
	6787	Cardale - West R.M. of Blanshard & Hamiota 18.1 km	Grade (18.1 km) Gravel (18.1 km)	587,080.31
354 & 607	6637	U.V.D. of Elphinstone R.M. of Strathclair 2.8 km	Preliminary Engineering	1,067.98
355	6644	P.R. No. 270 - NE Cor. Sec. 36-14-19W. R.M. of Saskatchewan 7.8 km	Preliminary Engineering	10,292.89
	6670	P.R. No. 474 - P.T.H. No. 83 R.M. of Miniota 11.5 km	Preliminary Engineering Right-of-Way Utilities	18,321.45
357	6640	P.T.H. No. 10 - P.R. No. 466 R.M. of Rosedale & Clanwilliam 20.6 km	Grade Gravel	34,275.92
359	6623	Vic. of Wasamin Creek Sec. 32-19-19W. L.G.D. of Park 2.5 km	Preliminary Engineering Right-of-Way Utilities	7,481.40
	6638	P.R. No. 354 - N.E. Sec. 8-19-22W. L.G.D. of Park 16.5 km	Preliminary Engineering Right-of-Way Utilities	2,897.93
	6647	Vista - P.R. No. 566 R.M. of Rossburn 9.9 km	Grade Gravel	2,654.99
	6692	West of Vista at Birdtail Valley R.M. of Rossburn 2.5 km	Preliminary Engineering Right-of-Way Utilities	42,533.22

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
359	6822	North of Sec. 9-19-25W. R.M. of Rossburn	Bridge Detour	$ 10,268.51
360	6597	P.R. No. 480 - P.R. No. 235 R.M. of Ste. Rose 18.5 km	Preliminary Engineering	72,798.26
362	6698	P.R. No. 267 - P.R. No. 273 R.M. of Dauphin 9.7 km	Preliminary Engineering Right-of-Way Utilities	426.13
364	6549	NE Cor. Sec. 27-30-18W. - P.T.H. No. 20 R.M. of Mossey River 4.4 km	Preliminary Engineering Right-of-Way Utilities	49,575.72
	6550	P.R. No. 364 - P.T.H. No. 20 R.M. of Mossey River 1.4 km	Right-of-Way Detour & Bridge Approaches	115,833.89
	6745	South of Winnipegosis East of Sec. 15, 22 & 27-30-18W. R.M. of Mossey River 4.9 km	Preliminary Engineering Right-of-Way Utilities	6,332.83
	6746	S. Jct. P.R. No. 269 - P.R. No. 481 R.M. of Mossey River, Dauphin & Lawrence 19.4 km	Preliminary Engineering	91,583.06
	6852	South of Winnipegosis - N. Jct. P.R. No. 269 R.M. of Mossey River 8.6 km	Grade Gravel	58,946.18
366	6524	E of SE 1/4 Sec. 12-26-24W. R.M. of Grandview	Detour Channel Improvements Approaches	12,906.82
	6539	Jackfish Creek East of NE Section 18-39-25W. L.G.D. of Mountain 45.8 km	Bridge Approaches Detour Deck	3,433.64

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
366	6576	Woody River - P.R. No. 268 L.G.D. of Mountain 4.9 km	Preliminary Engineering Right-of-Way Utilities	$ 7,064.77
	6577	Vicinity of Wellman Lake Duck Mountain Provincial Park 7.3 km	Preliminary Engineering Utilities	3,492.68
	6578	Woody River Bridge L.G.D. of Mountain	Detour Bridge Approaches Deck	11,241.86
	6591	N. of Valley River - NE Cor. Sec. 12-26-24W. R.M. of Grandview 5.7 km	Preliminary Engineering Right-of-Way Utilities	31,602.65
	6683	N. of Valley River NE Cor. Sec. 12-26-24W. R.M. of Grandview 5.7 km	Grade Widening (5.7 km) Shoulder Gravel (5.7 km)	345,471.67
	6753	P.R. No. 584 - East R.M. of Grandview & Boulton 23.2 km	Preliminary Engineering Right-of-Way Utilities	670.30
	6792	P.R. No. 267 - North District Boundary R.M. of Grandview & Duck Mountain Forest Reserve 14.8 km	Calcium Chloride (14.8 km)	32,115.27
366 & 367	6778	Duck Mountain Forest Reserve R.M. of Duck Mountain Forest Reserve	Calcium Chloride	160,102.02
367	6684	P.T.H. No. 10 - East Boundary Duck Mountain Forest Reserve R.M. of Ethelbert 6.5 km	Grade Widening (4.4 km) Base Course (4.4 km) Bituminous Pavement (4.4 km)	558,553.43
	6790	P.T.H. No. 10 - District 8 Boundary R.M. of Ethelbert & Duck Mountain Forest Reserve 10.0 km	Calcium Chloride (10.0 km)	16,041.70

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
367	6810	San Clara - P.R. No. 594 L.G.D. of Park 14.4 km	Calcium Chloride (14.4 km)	$ 10,189.91
401	6675	P.R. No. 204 - P.R. No. 202 R.M. of West St. Paul 3.1 km	Preliminary Engineering Right-of-Way Utilities	35,532.79
401 & 204	6592	North of Winnipeg R.M. of East St. Paul 6.5 km	Bituminous Pavement	313,164.53
405	6741	P.R. No. 200 - P.T.H. No. 59 R.M. of Ritchot 9.2 km	Preliminary Engineering	36,388.86
	6742	E. of P.T.H. No. 59 - P.R. No. 206 R.M. of Tache 15.7 km	Preliminary Engineering	1,681.07
406	6631	P.T.H. No. 15 - P.T.H. No. 44 R.M. of Whitemouth 14.8 km	Preliminary Engineering	2,512.86
408	6781	P.T.H. No. 44 - P.R. No. 307 R.M. of Whitemouth 13.4 km	Preliminary Engineering Right-of-Way	435.64
	6783	P.T.H. No. 11 - River Hills R.M. of Whitemouth	Calcium Chloride	11,610.91
411	6672	P.R. No. 430 - P.R. No. 414 R.M. of Woodlands & Portage la Prairie 11.6 km	Grade Gravel	1,644.85
413	6629	P.T.H. No. 9 - W. Boundary R.M. of District of St. Andrews 9.9 km	Preliminary Engineering Right-of-Way Utilities	143,621.21

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
415	6527	St. Laurent Easterly R.M. of St. Laurent 14.4 km	Grade	$ 25,204.31
	6557	P.T.H. No. 7 - P.R. No. 322 R.M. of Rockwood & Woodlands 19.7 km	Preliminary Engineering Right-of-Way Utilities	8,108.95
	6689	P.T.H. No. 6 - N. Jct. P.R. No. 518 R.M. of St. Laurent 14.8 km	Right-of-Way	17,364.53
	6754	St. Laurent Easterly R.M. of St. Laurent 14.4 km	Stockpiling Traffic Gravel	11,034.45
	6844	P.R. No. 416 - N. Jct. P.R. No. 518 R.M. of St. Laurent & L.G.D. of Armstrong 13.6 km	Preliminary Engineering Right-of-Way	27,296.69
	6875	NW Cor. Section 35-16-4W. - P.T.H. No. 6 R.M. of St. Laurent 2.3 km	Abandonment of a Provincial Road	4,200.00
416	6819	Vicinity of Inwood L.G.D. of Armstrong 4.1 km	Grade Gravel	3,891.63
417	6677	P.T.H. No. 6 - Dog Creek Indian Reserve R.M. of Eriksdale 24.5 km	Grade	17,035.37
	6755	Eriksdale Westerly R.M. of Eriksdale 24.5 km	Stockpiling Traffic Gravel	26,919.04
	6809	P.T.H. No. 6 - Dog Creek Indian Reserve R.M. of Eriksdale 24.5 km	Right-of-Way	22,304.18
419	6528	P.T.H. No. 6 - Sandy Point R.M. of Coldwell 18.0 km	Grade (12.9 km) Gravel (12.9 km)	708,900.29

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
419	6589	P.T.H. No. 6 - Sandy Point R.M. of Coldwell 18.9 km	Right-of-Way	$ 79,588.07
	6848	Narcisse - East of Lundar	Preliminary Engineering	27,685.04
421	6618	P.T.H. No. 75 - P.R. No. 522 R.M. of Rhineland & Montcalm 7.4 km	Preliminary Engineering Right-of-Way Utilities	31,392.64
	6765	P.R. No. 522 - P.T.H. No. 75 R.M. of Rhineland & Montcalm 7.4 km	Grade (7.4 km) Gravel (7.4 km)	414,933.66
422	6660	P.T.H. No. 23 - P.R. No. 205 R.M. of Morris 11.6 km	Preliminary Engineering	6,489.43
424	6558	P.T.H. No. 2 - P.R. No. 241 R.M. of Cartier & Macdonald 10.3 km	Preliminary Engineering Right-of-Way Utilities	41,630.10
430	6701	P.R. No. 227 - St. Ambroise Beach R.M. of Portage la Prairie 20.2 km	Grade Gravel	86,785.22
	6761	P.R. No. 227 - N. Jct. - St. Ambroise Beach R.M. of Portage la Prairie 20.2 km	Calcium Chloride (20.2 km)	64,179.65
	6762	P.T.H. No. 1 - P.T.H. No. 26 R.M. of Portage la Prairie 10.7 km	Calcium Chloride (10.7 km)	26,317.09
435	6604	P.T.H. No. 12 - P.R. No. 316 R.M. of Brokenhead 2.4 km	Grade (2.4 km) Gravel (2.4 km)	221,507.23
	6626	P.T.H. No. 59 - P.T.H. No. 12 R.M. of St. Clements & Brokenhead 21.0 km	Preliminary Engineering Right-of-Way	5,114.17

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
435	6796	P.T.H. No. 12 - P.R. No. 316 P.R. No. 214 - P.T.H. No. 11 R.M. of Brokenhead & Lac du Bonnet 24.3 km	Preliminary Engineering Right-of-Way Utilities	$ 60,713.81
440	6820	P.T.H. No. 23 - Pembina River Valley R.M. of Argyle 9.7 km	Right-of-Way	9,410.59
441	6708	P.T.H. No. 83 - P.T.H. No. 1 R.M. of Wallace 13.8 km	Right-of-Way Utilities	13,106.54
448	6821	P.T.H. No. 23 - P.R. No. 343 R.M. of Whitewater & Morton 11.6 km	Spot Grade Improvements	40,441.35
460	6559	Gladstone - P.R. No. 265 R.M. of Westbourne 18.5 km	Preliminary Engineering Right-of-Way Utilities	3,122.07
462	6737	P.R. No. 261 - N. Boundary R.M. of Glenella R.M. of Glenella 7.4 km	Preliminary Engineering Right-of-Way Utilities	500.96
	6808	N. Sec. 16-18-13W. R.M. of Glenella	Bridge Approaches	5,039.81
465	6858	P.R. No. 468 - East R.M. of Odanah 0.8 km	Preliminary Engineering	3,639.16
467	6735	P.T.H. No. 83 - W. Jct. P.R. No. 256 R.M. of Miniota & Archie	Preliminary Engineering Right-of-Way Utilities	29,775.98
468	6662	P.R. No. 561 - P.R. No. 353 R.M. of Elton 6.5 km	Preliminary Engineering	1,679.80

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
468	6725	P.R. No. 457 - P.R. No. 561 R.M. of Elton & Cornwallis 16.6 km	Preliminary Engineering Right-of-Way Utilities	$ 33,908.34
471	6636	P.R. No. 564 - P.R. No. 262 R.M. of Minto 6.6 km	Preliminary Engineering	643.64
	6639	P.T.H. No. 5 - NE Cor. Sec. 32-15-16W. R.M. of Rosedale 16.9 km	Preliminary Engineering Right-of-Way Utilities	6,907.64
474	6609	P.T.H. No. 24 - NE Sec. 31-14-25W. R.M. of Miniota 12.4 km	Grade Gravel	24,312.35
	6610	Isabella Area R.M. of Miniota & Birtle 13.6 km	Preliminary Engineering Right-of-Way Utilities	3,257.91
	6712	East Sec. 32-13-25W. in Sec. 8-14-25W. & East Sec. 19-14-25W. R.M. of Miniota	Detour & Approaches	1,684.28
	6727	P.T.H. No. 24 - NE Cor. Sec. 31-14-25W. R.M. of Miniota 12.4 km	Preliminary Engineering Right-of-Way Utilities	9,523.93
	6877	Arrow River to NE Sec. 19-14-25W. R.M. of Miniota 8.9 km	Abandonment Grant	16,500.00
478	6611	P.T.H. No. 16 East R.M. of Russell & Silver Creek 7.4 km	Preliminary Engineering	12,363.72
480	6519	South Jct. P.T.H. No. 5 East R.M. of St. Rose 2.8 km	Grade Gravel	41,328.70
	6702	North Jct. P.T.H. No. 5 - Turtle River R.M. of Ochre River 8.1 km	Preliminary Engineering Right-of-Way Utilities	867.50

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
480	6752	SE Sec. 19-22-16W. - NE Sec. 5-23-16W. R.M. of Ochre River 6.8 km	Preliminary Engineering Right-of-Way Utilities	$ 14,971.37
	6838	NE of NE Corner Sec. 10-22-16W. R.M. of Ochre River	Installation of Culverts	4,460.22
481	6545	Toutes Aides - Crane River R.M. of Lawrence & Ste. Rose Unorganized 27.7 km	Preliminary Engineering	51,454.69
482	6843	In Section 19-25-29W. R.M. of Shell River 0.8 km	Survey & Inspect Slide Area	24,809.61
485	6579	P.R. No. 366 - P.R. No. 486 R.M. of Swan River & Minitonas 16.5 km	Preliminary Engineering	511.20
488	6580	P.T.H. No. 10 South R.M. of Swan River 2.1 km	Preliminary Engineering Right-of-Way Utilities	10,067.04
	6731	South of P.T.H. No. 10 - South of P.R. No. 485 R.M. of Minitonas 7.4 km	Preliminary Engineering	19,793.63
	6807	P.T.H. No. 10 - 2.1 km South R.M. of Minitonas 2.1 km	Grade (2.1 km) Gravel (2.1 km)	123,097.76
	6847	Minitonas Creek Bridge R.M. of Minitonas	Bridge Approaches Detour & Deck	17,081.23
489	6520	Garland - East of Garland River R.M. of Ethelbert 9.4 km	Grade (1.9 km) Gravel (1.9 km)	174,163.97
	6538	E of NE Sec. 20-33-20W. L.G.D. of Mountain 45.8 m	Bridge Approaches Deck & Detour	7,576.78

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
489	6581	S. District Boundary - E. Sec. 13-32-21W. L.G.D. of Mountain 5.7 km	Preliminary Engineering	$ 13,745.98
	6750	E. of Garland - E. of Garland River R.M. of Ethelbert 9.4 km	Preliminary Engineering Right-of-Way Utilities	7,904.98
491	6544	P.R. No. 362 - Trembowla Historical Site R.M. of Dauphin 9.4 km	Preliminary Engineering Right-of-Way	17,948.41
501	6878	P.T.H. No. 1 - P.T.H. No. 12 R.M. of Tache 9.9 km	Base Course (9.9 km) A.S.T. (9.9 km)	62,129.73
513	6825	Gypsumville L.G.D. of Grahamdale 17.4 km	Grade	10,651.37
	6828	Anama Bay - N. of Sec. 23-24-7W. Unorganized Territory 35.1 km	Preliminary Engineering	88,664.00
514	6590	P.R. No. 235 - N. to N.W. Sec. 19-23-7W. R.M. of Siglunes 15.8 km	Preliminary Engineering	6,163.64
517	6560	P.R. No. 236 - P.T.H. No. 7 R.M. of Rockwood 4.8 km	Preliminary Engineering Right-of-Way Utilities	1,674.98
518	6673	S. Boundary R.M. of St. Laurent - P.R. No. 415 R.M. of St. Laurent 8.6 km	Preliminary Engineering Right-of-Way Utilities	2,223.00
543	6829	Jct. P.T.H. No. 1 & P.R. No. 542 R.M. of Wallace 0.8 km	Intersection Improvement	7,932.20

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
568	6726	P.T.H. No. 83 - Birdtail Creek R.M. of Birtle 7.0 km	Preliminary Engineering Right-of-Way Utilities	$ 2,386.48
575	6561	P.R. No. 260 - Tenby R.M. of Westbourne, Glenella & Lansdowne 5.5 km	Preliminary Engineering Right-of-Way Utilities	8,750.80
582	6839	W. of Jct. P.R. No. 582 & P.R. No. 480	Installation of Culverts	13,190.76
584	6546	P.R. No. 591 - N Limit Sec. 7-27-27W. R.M. of Shell River 5.4 km	Preliminary Engineering	6,324.24
585	6598	P.R. No. 364 - South R.M. of Lawrence 6.6 km	Preliminary Engineering	13,062.95
586	6730	P.R. No. 486 - South R.M. of Swan River 6.6 km	Preliminary Engineering	20,843.26
588	6582	P.T.H. No. 83 - North R.M. of Swan River 3.7 km	Preliminary Engineering Right-of-Way Utilities	5,515.16
	6583	N. of P.T.H. No. 83 - S. of P.R. No. 487 R.M. of Swan River 5.4 km	Preliminary Engineering	10,042.94
	6869	P.T.H. No. 83 North R.M. of Swan River 3.7 km	Grade Gravel	21,368.43
591	6747	P.R. No. 584 - P.T.H. No. 5 R.M. of Shell River & Hillsburg 3.9 km	Preliminary Engineering	14,990.54

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
594	6599	P.T.H. No. 83 - North Boundary R.M. Shell River R.M. of Shell River 7.3 km	Preliminary Engineering	$ 34,127.79
601	6650	Grand Beach Access R.M. of St. Clements 2.1 km	Bituminous Pavement (2.1 km)	356,314.17
603	6547	Morden Access R.M. of Stanley 2.0 km	Excavation Base Course Bituminous Pavement	804,226.91
605	6688	Griswold Access R.M. of Sifton 0.5 km	Base Course (0.5 km) Bituminous Pavement (0.5 km)	74,110.04
	6868	N. Limit City - Northerly R.M. of Rosser 0.8 km	Right-of-Way	1,801.80
607	6571	Lorette Access - Seine River Bridge - P.R. No. 405 R.M. of Tache 0.4 km	Preliminary Engineering Right-of-Way Utilities	4,142.86
	6716	Angusville Access R.M. of Silver Creek 1.2 km	Preliminary Engineering	14,299.87
608	6776	P.R. No. 278 - East L.G.D. of Alonsa 4.4 km	Grade (4.4 km) Gravel (4.4 km)	14,357.73
610	6607	Harrowby Access R.M. of Russell 3.1 km	Preliminary Engineering Right-of-Way Utilities	27,291.46
610 & 16	6690	Harrowby Access R.M of Russell 2.1 km	Base Course (2.1 km) Bituminous Pavement (2.1 km)	143,263.71
	6764	Harrowby Access R.M. of Russell 3.1 km	Grade (2.1 km) Gravel (2.1 km)	4,698.81

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
619	6791	Shellmouth Access R.M. of Shellmouth 4.3 km	Calcium Chloride (4.3 km)	$ 4,896.03
623	6612	P.T.H. No. 83 - P.T.H. No. 16 R.M. of Russell 2.1 km	Preliminary Engineering	28,058.28
	6709	Russell Access - Heather - Assiniboine R.M. of Russell 0.5 km	Paving	60,146.42
626	6814	King Street Town of Virden R.M. of Wallace 0.2 km	Bituminous Pavement	90,164.55
Watchorn Bay Road	6812	P.T.H. No. 6 - Watchorn Bay L.G.D. of Grahamdale 12.1 km	Preliminary Engineering	11,450.98
Selo Ukraina Access Road	6851	P.T.H. No. 10 - East Boundary S.W. 1/4 Sec. 4-24-19W. R.M. of Dauphin 0.84 km	Preliminary Engineering Right-of-Way Grade Gravel	74,377.34
Miscellaneous				
	6500	Various Highways	Right-of-Way	22,573.64
	6501	District 1	Engineering Expenses	26,754.35
	6502	District 2	Engineering Expenses	2,781.78
	6503	District 3	Engineering Expenses	11,240.98
	6504	District 4	Engineering Expenses	909.55
	6505	District 5	Engineering Expenses	12,128.59
	6507	District 7	Engineering Expenses	9,467.31
	6508	District 8	Engineering Expenses	64,702.97

Table No. C3

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
Miscellaneous				
	6509	District 9	Engineering Expenses	$ 18,165.59
	6510	District 10	Engineering Expenses	1,994.44
	6511	District 11	Engineering Expenses	13,139.56
	6512	District 12	Engineering Expenses	12,516.33
	6515	Various Highways	Engineering Audit Survey	57,124.74
	6694	P.R. No. 417 - Dog Creek School Dog Creek Indian Reserve No. 46	Preliminary Engineering	2,251.10
	6800	Various R.M. of Gimli L.G.D. of Armstrong	Spreading Traffic Gravel	4,847.32CR.
	6804	8385 Wilkes Avenue	Illumination	10,735.16
	Various Work Orders Incidental Amounts			1,228.31
	Bridge Projects (for details see Table No. B1)			3,278,437.60
			* 813.7	31,146,799.30

*Bituminous Pavement	31.1
Calcium Chloride	286.1
Base Course	72.1
Grading	201.2
Gravelling	176.4
Concrete Pavement	0.0
Asphalt Surface Treatment	43.1
Seal Coat	3.7
	813.7

HIGHWAY CONSTRUCTION
NORTHERN ROADS
APPROPRIATION 15-8A

Table No. C4

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
6	N417	Hargrave River - South of Minago River Unorganized Territory 57.5 km	Clearing Drainage	$303,374.02
	N441	North and South of Minago River Unorganized Territory 18.8 km	Grade Widening Shoulder Gravel	698,635.65
10	N409	C.N.R. Crossing-Mistik Creek Unorganized Territory 7.9 km	Rock Embankment	22,024.35
	N410	Mistik Creek - East Bakers Narrows Unorganized Territory 8.2 km	Rock Embankment	229,147.82
	N411	Cranberry Portage - C.N.R. Crossing Unorganized Territory 7.0 km	Grade Widening Base Course	4,894.32
	N431	E. of East Bakers Narrows - E. of West Bakers Narrows Unorganized Territory 2.0 km	Rock Excavation Grade Causeway	723,472.04
	N433	Mistik Creek - E. of East Bakers Narrows Unorganized Territory 8.2 km	Base Course (8.2) A.S.T. (8.2)	484,803.17
10A	N430	P.T.H. No. 10 - Green St. City of Flin Flon 0.7 km	Preliminary Engineering	2,221.20
	N432	Green St. - W. Jct. P.T.H. No. 10 City of Flin Flon 2.1 km	Preliminary Engineering	24,152.60
282	N413	P.T.H. No. 10 - P.R. No. 283 L.G.D. of Consol 23.9 km	Grade (13.8) Gravel (13.8)	10,792.51

Table No. C4

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
283	N303	P.R. No. 282 - Saskatchewan Boundary L.G.D. of Consol 18.2 km	Preliminary Engineering Right-of-Way	$ 1,061.70
	N372	P.R. No. 282 - Saskatchewan Boundary, L.G.D. of Consol 18.2 km	Grade Widening	55,112.98
285	434	E. of Sec. 19-56-25W. - E. of Sec. 20-56-25W. L.G.D. of Consol 3.4 km	Grade Gravel Calcium Chloride	86,773.90
287	N316	The Pas Airport - Atikameg Clearwater Provincial Park 7.0 km	Drainage Sub-Grade Improvements	4,887.38
289	N312	Grace Lake Road Town of The Pas 2.5 km	Gravel (2.5) Calcium Chloride (2.5)	2,192.07
291	N420	P.T.H. No. 10-P.T.H. No. 10A City of Flin Flon Unorganized Territory 4.5 km	Preliminary Engineering	12,803.28
304	N384	Black River - Sandy River Unorganized Territory 13.9 km	Grade Gravel	10,414.84
	N404	Sandy River - Manigotagan R. Unorganized Territory 16.0 km	Grade Gravel	61,504.76
	N405	P.T.H. No. 12 - Corner Section 16-17-9E. L.G.D. of Alexander 21.0 km	Preliminary Engineering Right-of-Way Utilities	32,723.13
	N426	Black River - Sandy River Unorganized Territory 13.9 km	Crushed Rock Base Course	639,468.78
	N446	Sandy River - Wallace Lake Unorganized Territory	Calcium Chloride	5,851.45
	N453	Sandy River Unorganized Territory	Detour Construction	7,664.30
	N454	Manigotagan-Wallace Lake Unorganized Territory	Stockpiling Gravel	248,103.55

Table No. C4

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
314	N455	P.R. No. 314 - Beresford Nopiming Park Unorganized Territory 80.0 km	Preliminary Engineering	$ 54,762.92
315	N445	Bird River - Booster Lake Access Road L.G.D. of Alexander & R.M. of Lac du Bonnet	Calcium Chloride	5,914.79
373	N394	Sea River Falls-Norway House Unorganized Territory 35.2 km	Preliminary Engineering	46,261.51
	N448	Muhigan River Southerly Unorganized Territory	Drainage	142,004.37
391	N328	Pipe Lake Mine Road - S. Soab Lake Mine Road L.G.D. of Mystery Lake 36.2 km	Rock Grade Widening Drainage Bituminous Levelling	155,750.30
	N359	P.R. No. 610 - S. Soab Mine Road Unorganized Territory 36.6 km	A.S.T. Gravel Bituminous Levelling	51,908.45
	N373	P.R. No. 392 - East of Wekusko Jct. Unorganized Territory 20.3 km	Grade Widening Base Course	41,065.34
	N390	P.T.H. No. 6 - P.R. No. 610 Unorganized Territory 46.9 km	Preliminary Engineering	7,175.30
	N391	Thompson Airport - Turnbull Lake Road L.G.D. of Mystery Lake, Unorganized Territory & Town of Leaf Rapids 199.2 km	Grade Gravel Drainage Improvements	402,690.66
	N406	Turnbull Lake - Lynn Lake Town of Leaf Rapids, Unorganized Territory L.G.D. of Lynn Lake 120.1 km	Bituminous Levelling Shoulder Gravel	509,968.33

Table No. C4

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
391	N407	West of Reed Lake - P.R. No. 392 Wekusko - Wabowden Access Unorganized Territory 134.4 km	Bituminous Levelling Shoulder Gravel	$988,988.06
	N422	Suwannee River - Turnbull Lake Road Unorganized Territory & Town of Leaf Rapids 37.4 km	Preliminary Engineering	21,397.73
	N438	South Soab Mine Road - Southerly L.G.D. of Mystery Lake & Unorganized Territory 14.5 km	Bituminous Levelling Shoulder Gravel	1,009,263.63
	N437	P.R. No.610 Thompson Airport - East of Odei River L.G.D. of Mystery Lake & Unorganized Territory 43.5 km	Preliminary Engineering	53,954.63
	N451	Vicinity of Wekusko & Ponton Unorganized Territory	Stockpiling Aggregate	586,199.69
392	N291	P.R. No. 391 - Town of Snow Lake L.G.D. of Snow Lake 33.0 km	Shoulder Repair Base Course A.S.T.	49,563.72
	N408	P.R. No. 391 - Snow Lake L.G.D. of Snow Lake 33.0 km	Bituminous Repairs	58,716.10
394	N213	Lynn Lake-Vandekerckhove Lk. L.G.D. of Lynn Lake & Unorganized Territory 49.9 km	Drainage Grade Improvements	23,689.68
395	N340	P.R. No. 392 - Chisel Lake Mine L.G.D. of Consol 13.1 km	Gravel Calcium Chloride	72,775.56

Table No. C4

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
396	N415	P.R. No. 397 - Fox Lake Mine L.G.D. of Lynn Lake & Unorganized Territory 45.1 km	Bituminous Levelling	$ 93,803.29
433	N444	E. Jct. P.R. No. 313 - W. Jct. P.R. No. 313 R.M. of Lac du Bonnet 19.7 km	Preliminary Engineering	24,070.72
610	N326	P.T.H. No. 10 - Manfor Plant Site Unorganized Territory 4.9 km	Subgrade Repair Bituminous Levelling	18,673.69
	N440	Nelson House Access Road Unorganized Territory 10.3 km	Spot Grade Improvements Gravel	147,583.64
South Bay Road	N319	Ruttan Lake Mine - South Bay Unorganized Territory 54.5 km	Drainage Grade (54.5) Gravel (54.5)	152,203.35
Moose Lake Access Road	N350	Atikameg - Moose Lake Unorganized Territory 45.1 km	Grade Repairs Gravel	9,546.44
Thompson Gillam Road	N360	Split Lake - Stephens Lake Unorganized Territory 67.6 km	Grade Gravel	660,482.72
	N361	Stephens Lake - Long Spruce Unorganized Territory 59.6 km	Grade (59.6) Gravel (59.6)	504,009.00
Easterville Extension Road	N371	P.R. No. 327 Westerly Unorganized Territory 36.3 km	Grade A.S.T.	103,058.62
	N412	P.R. No. 327 - West Mile 31 - 45 Unorganized Territory 22.6 km	Grade Widening Base Course	163,635.33

Table No. C4

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
Easterville Extension Road	N429	17.7 km E. of P.T.H. No. 10 -35.8 km E. of P.T.H. No. 10 Unorganized Territory 18.1 km	Grade Widening Base Course	$1,795,224.91
	N435	P.T.H. No. 10 - Easterly Unorganized Territory 17.7 km	Grade Widening Base Course	275,627.17
Umpherville Road	N416	P.T.H. No. 10 - Umpherville L.G.D. of Consol 2.3 km	Gravel Calcium Chloride	8,126.06
Cormorant Road	N436	Atikameg - South End of Cormorant Causeway Unorganized Territory 29.0 km	Preliminary Engineering	107,195.78
Broadland Road	N447	P.R. No. 304 - Southerly L.G.D. of Alexander 18 km	Preliminary Engineering Utilities	44,184.12
Split Lake Road	N383	Various Locations Unorganized Territory 18.2 km	Grade Drainage Gravel	144,521.38
Miscellaneous				
	N439	Gillam - Sundance Unorganized Territory & L.G.D. of Gillam 52 km	Preparation & Stockpiling Aggregate	316,413.54
	N443	Various Provincial Roads L.G.D. of Mystery Lake & Lynn Lake Town of Leaf Rapids Unorganized Territory 346.0 km	Calcium Chloride	159,159.13

Table No. C4

Highway	Work Order No.	Location of Project	Nature of Work (km completed)	Expenditure
Miscellaneous				
	N450	Various Winter Roads Unorganized Territory	Improve Access	$221,303.34
		Various Work Orders Incidental Amounts		50.80
		Bridge Projects (for details see Table No. B1)		233,740.85
			*277.2	13,126,744.45

* Nature of Work completed in km

Grading	127.9
Gravelling	130.4
Base Course	8.2
Calcium Chloride	2.5
Asphalt Surface Treatment	8.2
	277.2

Table No. C6

WINTER TRUCK ROADS
CONSTRUCTION AND MAINTENANCE
APPROPRIATION 15-4F-1 & 15-4F-2

Work Order No.	Location	Project Kilometres	Description of Work	Expenditure
CWT 904	Vicinity of Split Lake - York Landing	32	Construction & Maintenance	$ 50,108.95
908	South Bay - South Indian Lake	13	Construction & Maintenance	42,821.29
955	Hole River - Red Sucker Lake	831	Construction & Maintenance	20,740.91
963	Cross Lake - Oxford House	92	Construction & Maintenance	145,228.30
964	Cross Lake - Oxford House	50	Construction & Maintenance	87,750.74
965	Oxford House - God's Lake Narrows	36	Construction & Maintenance	63,539.32
966	Oxford House - God's Lake Narrows	55	Construction & Maintenance	104,225.21
967	Hole River - Red Sucker Lake	831	Construction & Maintenance	1,621,603.96
968	York Landing To Ilford	32	Construction & Maintenance	42,144.74

Table No. C6

Work Order No.	Location	Project Kilometres	Description of Work	Expenditure
CWT 969	E. Channel Nelson River Cross Lake - Oxford House	64	Construction & Maintenance	$ 124,508.27
				$2,302,671.69

Appropriation Summary	
15-4F-1	92,930.24
15-4F-2	2,209,741.45
	$2,302,671.69

Manitoba

Highways and
Transportation

MAINTENANCE SECTION

TABLES-M1, THROUGH M9

Table No. M1

MAINTENANCE CONTINGENCIES
PROVINCIAL TRUNK HIGHWAYS
APPROPRIATION 15-4A

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of					Expenditure
				Grading	Gravel-ling	Base Course	Bituminous Pavement	Concrete Pavement	
1	670	Drainage Improvements, Vicinity of Headingley, City of Winnipeg							$ 16,435.18
	677	Bituminous Repairs - Vicinity of P.T.H. No. 11 - P.R. No. 308, L.G.D. of Reynolds	23.8						11,597.31
1 & 100	660	Erosion Control - Various Locations - R.M. of Springfield, City of Winnipeg							4,483.63
3 & 14	675	Bituminous Repairs, Various Locations, R.M. of Stanley & Pembina							14,366.38
6	681	Bituminous Repairs, Various Locations, North of Gypsumville, E.D. of The Pas	32.0						15,836.74

Table No. M1

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of					Expenditure
				Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	
10	685	Erosion Control, Birch River Bridge, L.G.D. of Mountain							$ 2,939.32
12 & 308	708	Mechanical Brushing, Vicinity of Sprague, L.G.D. of Piney							5,259.96
15	688	Construction of On-Highway Traffic Inspection Lane, Vicinity of P.R. No. 207, R.M. of Springfield							25,659.50
16	729	Erosion Control, Assiniboine River Valley, R.M. of Russell							2,777.56
17	691	Bituminous Repairs, P.T.H. No. 7 - P.R. No. 229, R.M. of Rockwood	20.3						17,164.21
20 & 277	672	Chemical Brush Control - Various Locations, L.G.D. of Mountain & Swan River	72.4						4,148.58

Table No. M1

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of					Expenditure
				Grading	Gravel-ling	Base Course	Bituminous Pavement	Concrete Pavement	
21, 250 & 259	669	Asphalt Repairs - Rivers Area, R.M. of Woodworth & Daly	30.0						$ 10,834.03
44, 307 & 309	696	Hand Brushing, Various Locations, Whiteshell Provincial Park							21,639.30
67, 320 & 410	679	Bituminous Repairs, Various Locations, Town of Selkirk, R.M. of St. Andrews	23.4						53,339.64
75	678	Bituminous Repairs, Morris - P.T.H. No. 14, R.M. of Morris & Montcalm	17.0						4,979.59
100 & 334	661	Erosion Control & Bituminous Repairs, City of Winnipeg							23,341.74
100	674	Concrete and Bituminous Repairs, Westbound Lanes, Plessis Road - P.T.H. No. 59, City of Winnipeg							105,130.57

Table No. M1

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of					Expenditure
				Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	
Emerson Weigh Scale	653	Upgrade Weigh Scale Components							$ 9,497.29
West Hawk Lake Scale	676	Weigh Scale Platform Repairs							4,340.35
Various	650	Repair Deflection Equipment							1,521.18
	651	Mobilization of 2 Seal Coat Crews							6,279.23
	652	Mobilization of Concrete Repair Crews							56,367.81
	654	Purchase and Installation of Ten 2-Way Radios							23,215.06
	658	Chemical Brush Control, Various Locations							2,192.37
									$443,346.53

Table No. M2

MAINTENANCE SPECIAL PROJECTS
PROVINCIAL TRUNK HIGHWAYS
APPROPRIATION 15-4A

				Kilometres of					
Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
1	586	Asphalt Repairs, Vicinity of P.R. No. 350 - P.T.H. No. 34, R.M. of North Norfolk	15.0						$ 71,706.50
	587	Concrete Repairs, P.T.H. No. 26 - P.T.H. No. 16, R.M. of Portage la Prairie	32.0						50,995.57
1 & 100	522	Asphalt Repairs, Various locations, City of Winnipeg, R.M. of Springfield & Macdonald							33,344.14
	531	Drainage Improvements, Headingley Area, City of Winnipeg							16,745.87
1A	506	Bituminous Repairs, Kemnay Underpass, R.M. of Whitehead	0.1						7,970.22

Table No. M2

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Kilometres of Gravelling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
1A & 10	507	Sealcoating, Various Locations, City of Brandon, R.M. of Cornwallis & Oakland	48.0				48.0 (Seal Coat)		$477,278.58
2	508	Bituminous Repairs, P.T.H. No. 18 - P.T.H. No. 10, R.M. of South Cypress & Oakland	25.6						27,374.46
2 & 59	525	Bituminous Repairs, Various Locations, City of Winnipeg, R.M. of Springfield & Macdonald							25,061.51
2 & 247	552	Erosion Control, Various Locations, R.M. of Macdonald & Grey	6.0						4,875.85
3	553	Shoulder Restoration, Vicinity of Brunkild, R.M. of Macdonald	5.0						16,274.01
5	510	Bituminous Repairs, P.T.H. No. 1 - Vicinity of Carberry, R.M. of North Cypress	6.0						21,892.20

Table No. M2

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of					Expenditure
				Grading	Gravel-ling	Base Course	Bituminous Pavement	Concrete Pavement	
5	642	Bituminous Repairs, P.T.H. No. 3 - P.T.H. No. 23, R.M. of Roblin & Argyle	35.6						$ 47,493.64
5 & 5A	515	Concrete Repairs, Jct. P.T.H. No. 5 & P.T.H. No. 10 - Whitmore Ave., R.M. of Dauphin	4.8						21,982.26
6	528	Asphalt Repairs, P.T.H. No. 101 - P.R. No. 321, R.M. of Rosser							27,520.08
	549	Bituminous Repairs, Vicinity of Minago River, Unorganized Territory							28,798.03
	594	Asphalt Repairs, P.T.H. No. 67 - Lake Francis, R.M. of Woodlands	33.5						54,911.25
6, 321 & Grosse Isle Access	585	Sealcoating, Various Locations, R.M. of Rockwood & Woodlands	12.2				12.2 (Seal Coat)		87,381.27

Table No. M2

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of					Expenditure
				Grading	Gravel-ling	Base Course	Bituminous Pavement	Concrete Pavement	
7,8,9 & Various P.R.'s	530	Bituminous Repairs, Various Locations, R.M. of Rosser & West St. Paul							$ 29,058.57
8	608	Bituminous Repairs, P.R. No. 230 - P.R. No. 229, R.M. of St. Andrews	48.5						72,029.66
10	541	Bituminous Repairs, E. Jct. P.T.H. No. 10A Easterly, R.M. of Swan River							18,067.85
	599	Asphalt Repairs, Boissevain - S. Jct. P.T.H. No. 23, R.M. of Morton & Whitewater	22.9						55,812.13
	613	Sealcoating, P.T.H. No. 10A - Vicinity of Flin Flon Airport, Unorganized Territory	14.5				14.5 (Seal Coat)		101,336.37
	618	Bituminous Repairs, Cranberry Portage - Flin Flon, Unorganized Territory							24,061.29

Table No. M2

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of					Expenditure
				Grading	Gravel-ling	Base Course	Bituminous Pavement	Concrete Pavement	
10	619	Shoulder Restoration, Cranberry Portage - Flin Flon, Unorganized Territory							$ 6,036.76
11	607	Bituminous Repairs, P.T.H. No. 44 - P.R. No. 506, R.M. of Whitemouth	15.7						14,245.63
12	563	Asphalt Repairs, P.R. No. 310 - Vicinity of P.T.H. No. 89, L.G.D. of Piney	21.0						26,607.21
13	644	Bituminous Repairs, P.T.H. No. 1 Southerly, R.M. of Portage la Prairie	14.4						30,885.40
14	554	Concrete Repairs, P.T.H. No. 75 - P.T.H. No. 30, R.M. of Montcalm & Rhineland	17.0						81,223.60
15	606	Bituminous Repairs, Elma - Contour, R.M. of Whitemouth, L.G.D. of Reynolds	16.0						17,603.81

Table No. M2

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of Grading	Gravel-ling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
16	571	Bituminous Repairs, E. Boundary, R.M. of Langford - N. Boundary, R.M. of Strathclair, Various Municipalities							$ 45,373.89
17	579	Bituminous Repairs, P.T.H. No. 68 - Inwood, L.G.D. of Armstrong & Fisher	51.0						22,340.71
18	643	Bituminous Repairs, N. Jct. P.T.H. No. 3 - P.T.H. No. 23, R.M. of Turtle Mountain & Riverside	24.9						11,213.71
20	514	Bituminous Repairs, P.T.H. No. 5 - Dauphin, R.M. of Ochre River & Dauphin	24.6						15,362.61
	543	Sealcoating, P.R. No. 272 Westerly, L.G.D. of Mountain	24.3				24.3 (Seal Coat)		170,899.25

Table No. M2

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Kilometres of Gravelling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
20	647	Drainage Improvements, R.M. of Dauphin	4.9						$ 29,434.51
21	600	Sealcoating, N. Jct. P.T.H. No. 3 - P.T.H. No. 23, R.M. of Winchester & Cameron	21.4				21.4 (Seal Coat)		106,126.95
21,355 469 & Hamiota Access	627	Sealcoating, Various Locations, R.M. of Hamiota	15.8				15.8 (Seal Coat)		186,123.65
23	539	Bituminous Repairs, Altamont - P.T.H. No. 34, R.M. of Lorne	25.4						36,612.58
23 & 218	566	Asphalt Repairs, P.T.H. No. 59 - Red River & P.T.H. No. 59 Southwesterly, R.M. of Morris & De Salaberry	29.0						34,217.78
24	631	Sealcoating, P.R. No. 474 - P.T.H. No. 21, R.M. of Miniota & Hamiota	13.3				13.3 (Seal Coat)		10,236.63

Table No. M2

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of					Expenditure
				Grading	Gravel-ling	Base Course	Bituminous Pavement	Concrete Pavement	
29 & 75	595	Maintenance of the Roadside Park and Landscaped Areas, Vicinity of Emerson							$ 14,675.29
31	536	Sealcoating, U.S. Border - P.T.H. No. 3, R.M. of Pembina	22.9				22.9 (Seal Coat)		154,536.69
41	502	Spot Sealcoating, P.T.H. No. 1 - P.R. No. 571, R.M. of Wallace & Archie	0.6				0.6 (Seal Coat)		60,842.38
44	609	Bituminous Repairs, P.R. No. 301 - P.R. No. 307, Whiteshell Provincial Park	30.2						45,121.15
44 & 59	645	Asphalt Repairs, Various Locations, R.M. of St. Clements							52,023.09
45	573	Bituminous Repairs, Vicinity of P.T.H. No. 10, R.M. of Harrison							25,365.24

Table No. M2

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of					Expenditure
				Grading	Gravel-ling	Base Course	Bituminous Pavement	Concrete Pavement	
45	574	Sealcoating, Vicinity of P.R. No. 250 - P.T.H. No. 21, R.M. of Shoal Lake & Strathclair	31.1				31.1 (Seal Coat)		$188,387.05
	629	Sealcoating, P.T.H. No. 21 - P.R. No. 254, R.M. of Shoal Lake & Rossburn	13.9						17,139.06
50	511	Bituminous Repairs, Vicinity of Alonsa, L.G.D. of Alonsa	4.8						10,045.00
52	568	Asphalt Repairs, P.T.H. No. 12 - P.T.H. No. 59, R.M. of Hanover	20.9						11,997.69
59 & 201	564	Asphalt Repairs, P.R. No. 216 - U.S.A. Border, P.T.H. No. 59 - P.R. No. 208, R.M. of Franklin & L.G.D. of Stuartburn	51.7						18,011.43
67	591	Bituminous Repairs, P.T.H. No. 7 - Stonewall, R.M. of Rockwood	4.8						30,251.70

Table No. M2

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of					Expenditure
				Grading	Gravel-ling	Base Course	Bituminous Pavement	Concrete Pavement	
68	575	Bituminous Repairs, P.T.H. No. 7 - P.T.H. No. 17, R.M. of Bifrost, L.G.D. of Fisher	27.5						$171,377.28
83	501	Guide Post Installation, Assiniboine River Valley, R.M. of Miniota							5,322.81
100	523	Concrete Repairs, Various Locations, P.T.H. No. 1E. - P.T.H. No. 3, City of Winnipeg, R.M. of Springfield & Macdonald							49,950.94
	633	Asphalt Repairs, Various Locations, P.T.H. No. 75 - P.T.H. No. 3, City of Winnipeg, R.M. of Springfield & Macdonald							30,901.85
	637	Asphalt Repairs, Easthound Lanes, P.R. No. 200 - P.T.H. No. 1E., City of Winnipeg, R.M. of Springfield & Macdonald	12.3						85,224.52

Table No. M2

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of Grading	Kilometres of Gravel-ling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
100, 101 & 221	521	Bituminous Shoulder Repairs, Various Locations, City of Winnipeg, R.M. of Rosser							$ 24,785.52
101	529	Bituminous Repairs, Various Locations, R.M. of Rosser & West St. Paul							22,388.73
	533	Concrete Repairs, Various Locations, P.T.H. No. 59 - P.R. No. 204, Navin Road - P.T.H. No. 15, R.M. of Springfield & East. St. Paul							43,290.51
	638	Concrete Repairs, P.T.H. No. 6 - P.T.H. No 7, R.M. of Rosser							29,399.43
Various Highways	620	Mechanical Brushing, Various Locations, The Pas/Thompson Area, Unorganized Territory							31,226.98
							*204.1		$ 3,288,780.33

* Seal Coat

Table No. M4

MAINTENANCE CONTINGENCIES
PROVINCIAL ROADS
APPROPRIATION 15-4A

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of					Expenditure
				Grading	Gravel-ling	Base Course	Bituminous Pavement	Concrete Pavement	
201	699	Drainage and Erosion Control, L.G.D. of Stuartburn							$ 5,596.95
203	719	Grade Repairs, Vicinity of P.R. No. 210, Sandilands Provincial Forest							10,588.66
222	700	Hand Brushing, Hnausa - Riverton, R.M. of Bifrost							11,255.95
230	668	Bituminous Repairs, P.T.H. No. 8 - P.T.H. No. 9, R.M. of St. Andrews	10.6						37,528.24
231	664	Culvert Repairs, Vicinity of Fraserwood, L.G.D. of Armstrong							5,349.26

Table No. M4

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of					Expenditure
				Grading	Gravel-ling	Base Course	Bituminous Pavement	Concrete Pavement	
235	727	Erosion Control, Lake Manitoba Causeway, R.M. of Siglunes	0.1						$ 26,750.00
242	666	Bituminous Repairs, Assiniboine River Valley, R.M. of South Norfolk	1.0						2,953.57
259	680	Asphalt Repairs, P.R. No. 250 - P.R. No. 354, R.M. of Daly	11.6						5,421.86
	682	Bituminous Repairs, Assiniboine River Valley - P.T.H. No. 21, R.M. of Woodworth	17.5						35,313.50
	694	Guard Rail Installation, Various Locations, R.M. of Woodworth							12,800.14
268	662	Drainage Improvements, Birch River, L.G.D. of Mountain							8,344.00

Table No. M4

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of Grading	Kilometres of Gravel-ling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
302	698	Grade Repairs, Vicinity of P.R. No. 501, R.M. of Tache							$ 2,636.06
303	709	Grade Repairs, P.T.H. No. 12 - P.T.H. No. 52, R.M. of Hanover & La Broquerie							5,140.88
304	663	Chemical Brush Control, Various Locations, Unorganized Territory	13.7						1,570.50
307	692	Mowing Right-of-Way, P.T.H. No. 11 - P.T.H. No. 44, Whiteshell Provincial Park & R.M. of Whiteshell							3,224.63
308	705	Sprague River Relocation, L.G.D. of Piney							4,511.84
313	713	Stockpiling Seal Coat Aggregate, Jct. P.R. No. 315 - Pointe du Bois, L.G.D. of Alexander	17.4						10,677.19

Table No. M4

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of Grading	Kilometres of Gravel-ling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
359	728	Roadside Clean-Up, P.R. No. 476 - P.R. No. 254, R.M. of Silver Creek & Rossburn							$ 1,343.59
362	684	Bituminous Repairs, Vicinity of P.T.H. No. 5, R.M. of Dauphin	1.0						11,172.70
363	656	Grade and Bituminous Repairs, Big Boggy Creek Area, R.M. of Shell River	0.1						8,506.77
391	673	Chemical Brush Control, Wekusko Jct. - Vicinity of Wabowden Jct., Unorganized Territory	44.6						6,259.06
487 & 588	657	Grading & Gravelling, Various Locations, R.M. of Swan River	5.0		5.0				3,165.55
586	683	Gravelling, P.T.H. No. 83 Southerly, R.M. of Swan River	5.0		5.0				2,738.61

Table No. M4

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of					Expenditure
				Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	
Oakburn Access	659	Grade Repairs, R.M. of Shoal Lake	0.1						$ 13,730.41
Various Highways	689	Drainage Improvements, Various R.M.'s							3,844.91
	695	Mechanical Brushing, Duck Mountain Provincial Park							8,083.59
	717	Mechanical & Hand Brushing, Various R.M.'s							21,956.14
Steinbach Yard	655	Snowplow Storage Building Improvements, R.M. of Hanover							5,010.28
Swan River Yard	667	Security Fence Improvements, Town of Swan River							7,690.93
Wawanesa Yard	671	Storage Building Improvements, Village of Wawanesa							17,095.27
Carberry & Brandon Yards	686	Construction of Sodium Chloride Storage Bins, City of Brandon, R.M. of North Cypress							18,197.73

Table No. M4

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of					Expenditure
				Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	
Morden Yard	693	Installation of Asphalt Storage Tank, R.M. of Stanley & Morden							$ 12,069.38
Dauphin Yard	702	Construction of Sodium Chloride Storage Bin, Town of Dauphin							12,830.89
Hamiota Yard	703	Construction of Snowplow Storage Building, R.M. of Hamiota							58,348.86
Elkhorn & Rivers Yards	706	Storage Building Insulation & Wiring Improvements, R.M. of Wallace & Daly							9,541.45
Sprague Yard	707	Snowplow Storage Building Improvements, L.G.D. of Piney							11,613.43
Hadashville Yard	710	Installation of Fuel Storage Facility, L.G.D. of Reynolds							5,390.46

Table No. M4

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of					Expenditure
				Grading	Gravel-ling	Base Course	Bituminous Pavement	Concrete Pavement	
White-mouth Yard	711	Construction of Sodium Chloride Storage Bin, R.M. of Whitemouth							$ 8,582.68
Warren Yard	712	Installation of Fuel Storage Facility, R.M. of Woodlands							4,985.10
Ninette Yard	714	Fuel Storage System Improvements, R.M. of Strathcona							7,554.27
Carman & Altona Yards	715	Construction of Sodium Chloride Storage Bins, R.M. of Dufferin & Rhineland							13,938.96
Elm Creek Yard	716	Installation of Asphalt Storage Tank, R.M. of Grey							12,290.87
Cowan Yard	718	Fuel Storage System Improvements, L.G.D. of Mountain							4,709.15
White-mouth & Manigota-gan Yards	721	Storage Building Improvements, R.M. of Whitemouth & Rupertsland							7,478.10

Table No. M4

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of					Expenditure
				Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	
Whitemouth & Bissett Yards	722	Snowplow Storage Building Improvements, R.M. of Whitemouth & Rupertsland							$ 9,045.50
Poplarfield & Eriksdale Yards	724	Fuel Storage System Improvements, L.G.D. of Fisher, R.M. of Eriksdale							12,428.71
Gimli Yard	725	Storage Building Improvements, L.G.D. of Armstrong							4,840.29
Hamiota Yard	726	Construction of Office Building, R.M. of Hamiota							33,211.38
Rapid City Yard	730	Asphalt Storage Tank Improvements, R.M. of Saskatchewan							5,471.68
Killarney Yard	731	Construction of Office Building, Town of Killarney							25,367.19

Table No. M4

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of Grading	Gravel-ling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
Rivers Yard	732	Construction of Office Building, R.M. of Daly							$ 33,440.13
Holland Yard	733	Insulate Snow Plow Storage Building, R.M. of Victoria							10,259.86
Carberry Yard	735	Building Improvements, R.M. of North Cypress							898.34
San Clara Yard	736	Construction of Sodium Chloride Storage Bin, L.G.D. of Park							1,675.21
Mafeking Yard	737	Purchase of Industrial Line Fence, L.G.D. of Mountain							4,154.40
Beause-jour & Bird's Hill Yards	690	Electrical Repairs - Various Locations, R.M. of Springfield, Town of Beausejour							1,224.99

Table No. M4

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of					Expenditure
				Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	
Carman, Morden, Manitou & Altona Yards	704	Repairs to Snowplow Storage Buildings, Various Locations, Various R.M.'s							$ 10,602.36
Bird's Hill Park, Lac du Bonnet, Petersfield & Beausejour Yards	720	Construction of Sodium Chloride Storage Bins, Various Locations, Various R.M.'s							32,984.68
Bird's Hill Park, Whitemouth & Manigotagan Yards	723	Fuel Storage System Improvements Various Locations							19,951.85
Holland, Carberry, & Souris Yards	734	Fuel Storage System Improvements, Various Locations, Various R.M.'s							19,588.37

Table No. M4

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Kilometres of Gravelling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
Various Yards	697	Purchase of Portable Sign Stands, Various Locations							$ 8,494.51
					10.0				$721,431.82

Table No. M5

MAINTENANCE SPECIAL PROJECTS
PROVINCIAL ROADS
APPROPRIATION 15-4A

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of Grading	Kilometres of Gravel-ling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
200 & 201	560	Sealcoating, P.R. No. 200 - P.T.H. No. 75, P.R. No. 201 - Dominion City, R.M. of Franklin	12.7				12.7 (Seal Coat)		$130,775.47
200 & 311	565	Bituminous Repairs, St. Adolphe - P.R. No. 305, Niverville - P.R. No. 200, R.M. of Ritchot	19.5						19,369.61
202 & 204	520	Bituminous Repairs, Various Locations, City of Winnipeg, R.M. of East St. Paul & St. Clements							21,563.88
205 & 330	555	Grading and Gravelling, P.R. No. 422 - Westerly, P.T.H. No. 75 Northerly, R.M. of Morris	7.2		7.2				11,840.41

Table No. M5

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of					Expenditure
				Grading	Gravelling	Base Course	Bituminous Pavement	Concrete Pavement	
206	567	Bituminous Repairs, P.R. No. 210 - P.R. No. 311, R.M. of Tache	8.1						$ 18,798.19
207 & 311	562	Asphalt Repairs, Lorette - P.T.H. No. 1, Vicinity of P.T.H. No. 12, R.M. of Tache & Hanover	12.2						42,277.42
209 & 218	559	Sealcoating, P.R. No. 201 - P.R. No. 209, P.R. No. 218 - Ridgeville, R.M. of Franklin	9.0				9.0 (Seal Coat)		56,059.46
210 & 311	558	Sealcoating, P.R. No. 302 - P.R. No. 311, P.R. No. 210 - P.T.H. No. 12, R.M. of Hanover & Ste. Anne	16.7				16.7 (Seal Coat)		88,877.25
221 & 241	526	Bituminous Repairs, Various Locations, City of Winnipeg, R.M. of Rosser							52,539.09

Table No. M5

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of					Expenditure
				Grading	Gravel-ling	Base Course	Bituminous Pavement	Concrete Pavement	
224	581	Drainage Improvements, P.R. No. 325 - Dallas, Peguis Indian Reserve, Unorganized Territory	22.0						$ 1,932.23
	583	Bituminous Repairs, P.R. No. 325 - Dallas, Peguis Indian Reserve, Unorganized Territory	22.0						51,544.93
229	578	Bituminous Repairs & Erosion Control, P.T.H. No. 8 - P.T.H. No. 17, R.M. of Gimli, L.G.D. of Armstrong	32.5						9,741.36
233	547	Gravelling, Hecla Island Provincial Park, Unorganized Territory	24.3		24.3				24,782.24
235	512	Sealcoating, Lake Manitoba Narrows Westerly, L.G.D. of Alonsa	33.8				33.8 (Seal Coat)		212,658.23
	513	Sealcoating, P.T.H. No. 5 Easterly, R.M. of Ste. Rose, L.G.D. of Alonsa	11.3				11.3 (Seal Coat)		62,348.35

Table No. M5

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of Grading	Kilometres of Gravel-ling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
235	626	Sealcoating, P.T.H. No. 6 Westerly, R.M. of Eriksdale & Siglunes, L.G.D. of Grahamdale, Dog Creek Indian Reserve	40.2				40.2 (Seal Coat)		$264,392.34
	634	Installation of Bridge Approach Guide Rail Cable, Lake Manitoba Narrows Bridge, R.M. of Siglunes							11,200.01
236	524	Sealcoating, P.T.H. No. 6 Northerly, R.M. of Rosser	8.2				8.2 (Seal Coat)		42,287.71
	584	Sealcoating, P.R. No. 321 - S. Jct. P.T.H. No. 67, R.M. of Rockwood	6.4				6.4 (Seal Coat)		29,123.48
241, 322 & 424	588	Gravelling, P.T.H. No. 1 Southerly, Various Locations, R.M. of Cartier	25.0		25.0				36,342.69
241 & 248	590	Bituminous Repairs, N. Jct. P.R. No. 248 - St. Eustache, P.T.H. No. 1 - P.T.H. No. 26, R.M. of Cartier	14.4						24,097.66

Table No. M5

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Kilometres of Gravelling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
242	534	Gravelling, P.T.H. No. 3 - P.T.H. No. 23, R.M. of Pembina & Lorne	20.4		20.4				$ 5,275.81
	538	Spot Sealcoating, U.S. Border - P.T.H. No. 3, R.M. of Pembina	6.5				6.5 (Seal Coat)		40,773.76
	545	Bituminous Repairs, Bagot - P.R. No. 461, R.M. of North Norfolk	21.7						13,143.76
	632	Spot Sealcoating, P.T.H. No. 23 - Somerset, R.M. of Lorne	1.6				1.6 (Seal Coat)		10,511.51
	639	Sealcoating, Bagot Southerly, R.M. of North Norfolk	6.5				6.5 (Seal Coat)		45,207.58
244 & Manitou Access	535	Sealcoating, P.T.H. No. 3 - P.T.H. No. 23, R.M. of Pembina	16.4				16.4 (Seal Coat)		121,300.23
245	537	Sealcoating, P.R. No. 244 - W. Jct. P.R. No. 242, R.M. of South Norfolk	9.9				9.9 (Seal Coat)		65,800.10

Table No. M5

Highway	Work Order No.	Nature & Location of Project	Project Kilo- metres	Kilometres of					Expenditure
				Grading	Gravel- ling	Base Course	Bituminous Pavement	Concrete Pavement	
251	598	Bituminous Repairs, P.T.H. No. 21 - P.T.H. No. 83, R.M. of Brenda & Arthur	37.8						$ 51,004.06
262	572	Bituminous Repairs, P.T.H. No. 10 - P.T.H. No. 16, R.M. of Odanah							28,401.70
265 & 588	542	Sealcoating, P.T.H. No. 10A - Saskatchewan Border, P.R. No. 275 Northerly, R.M. of Swan River	27.3				27.3 (Seal Coat)		156,177.40
268	544	Bituminous Repairs, Birch River - P.R. No. 587, L.G.D. of Mountain, R.M. of Minitonas	31.3						20,249.82
274	518	Grade & Bituminous Repairs, P.T.H. No. 5 Southerly, R.M. of Gilbert Plains	12.1						19,887.66

Table No. M5

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of					Expenditure
				Grading	Gravel-ling	Base Course	Bituminous Pavement	Concrete Pavement	
276	517	Grade and Bituminous Repairs, Vicinity of P.T.H. No. 5 - P.R. No. 480, R.M. of Ste. Rose & Lawrence	12.8						$ 18,223.98
301	602	Sealcoating, P.T.H. No. 44 - P.T.H. No. 1, Whiteshell Provincial Park, R.M. of Lac du Bonnet	11.6				11.6 (Seal Coat)		83,839.96
304	603	Bituminous Repairs, P.T.H. No. 11 - P.T.H. No. 12, R.M. of Lac du Bonnet & Brokenhead	36.5						15,008.13
	604	Sealcoating, P.T.H. No. 11 - O'Hanley River, Unorganized Territory	31.4				31.4 (Seal Coat)		202,740.82
305	556	Gravelling, Brunkild - P.T.H. No. 13, R.M. of Macdonald & Dufferin	30.0		30.0				15,394.11
	592	Bituminous Repairs, P.T.H. No. 1 - Assiniboine River, R.M. of Portage la Prairie	14.0						11,185.49

Table No. M5

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of Grading	Kilometres of Gravel-ling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
307	610	Bituminous Repairs, P.T.H. No. 11 - P.T.H. No. 44, Whiteshell Provincial Park	57.0						$ 28,602.12
326	582	Bituminous Repairs, P.T.H. No. 68 - P.R. No. 329, R.M. of Bifrost, Village of Arborg	11.4						73,511.15
327	625	Grade Repairs, Easterville Southerly, E.D. of The Pas	6.4						8,762.59
330	557	Bituminous Repairs, Domain - P.T.H. No. 100, R.M. of Macdonald	20.0						27,764.51
338	641	Drainage Improvements, P.R. No. 331 Southerly, R.M. of Portage la Prairie	0.8						4,800.39
344	648	Sealcoating, First Street - 17th Steet E., City of Brandon	1.6				1.6 (Seal Coat)		1,124.87

Table No. M5

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of Grading	Kilometres of Gravel-ling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
351	509	Bituminous Repairs, W. Jct. P.T.H. No. 1 - Carberry, R.M. of North Cypress							$ 21,691.65
354	505	Installation of Guard Rail, Vicinity of Bradwardine, R.M. of Daly							2,615.57
391	548	Bituminous Repairs, Ponton - Thompson, Unorganized Territory, L.G.D. of Mystery Lake							30,615.81
	550	Bituminous Levelling, Lynn Lake - Leaf Rapids, L.G.D. of Lynn Lake, Town of Leaf Rapids, Unorganized Territory							24,874.37
	623	Sealcoating, Reed Lake - P.R. No. 392, Unorganized Territory	46.7				46.7 (Seal Coat)		248,474.63
392	622	Sealcoating, P.R. No. 391 - Snow Lake, L.G.D. of Snow Lake	34.4				34.4 (Seal Coat)		198,823.00

Table No. M5

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of Grading	Kilometres of Gravel-ling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
394	614	General Maintenance, Vanderkerckhove - Co-op Point, Unorganized Territory	31.0						$ 16,552.07
427	519	Gravelling, P.R. No. 334 - P.R. No. 424, City of Winnipeg	6.4		6.4				31,225.78
432	546	Bituminous Repairs, Morden Southerly, R.M. of Stanley	8.8						10,789.25
466	570	Grade Repairs & Gravelling, P.R. No. 471 - P.R. No. 265, R.M. of Rosedale	6.4		6.4				7,315.40
476	630	Sealcoating, P.T.H. No. 45 Northerly, R.M. of Silver Creek	1.2				1.2 (Seal Coat)		21,920.07
478	628	Sealcoating, P.T.H. No. 45 Northerly, R.M. of Silver Creek	0.3				0.3 (Seal Coat)		9,168.02

Table No. M5

	Work			Kilometres of					
Highway	Order No.	Nature & Location of Project	Project metres	Grading	Gravel-ling	Base Course	Bituminous Pavement	Concrete Pavement	Expenditure
487	635	Gravelling, P.T.H. No. 83 - P.R. No. 588, R.M. of Swan River	14.6		14.6				$ 9,602.83
517	593	Bituminous Repairs, P.T.H. No. 7 - Balmoral, R.M. of Rockwood	4.8						18,809.56
542	503	Right-of-Way Cleanup & Road Sign Installation, P.R. No. 257 - P.T.H. No. 1, R.M. of Wallace	21.2						18,085.66
Various	601	Spot Sealcoating, Various Highways, Various R.M.'s	25.0				25.0 (Seal Coat)		77,985.74
	621	Summer Maintenance, Various Manfor Roads, Unorganized Territory							33,012.64
St. Laurent	580	Bituminous Repairs, R.M. of St. Laurent	7.7						5,071.28
Manfor Access	615	Bituminous Repairs, L.G.D. of Consol	3.0						10,570.42

Table No. M5

Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Kilometres of Grading	Kilometres of Gravelling	Kilometres of Base Course	Kilometres of Bituminous Pavement	Kilometres of Concrete Pavement	Expenditure
Herb Lake Access	617	Grade Repair, P.R. No. 392 - Herb Lake Landing, Unorganized Territory	3.3						$ 1,108.89
International Peace Garden Roads	597	General Maintenance							7,427.70
Virden Yard	500	Construction of Sodium Chloride Storage Bin, R.M. of Wallace							7,141.76
	504	Installation of Fuel Storage Facility, R.M. of Wallace							4,440.04
Dauphin Yard	516	Depositing Granular Material, Town of Dauphin							9,811.49
Bird's Hill Yard	532	Maintenance Yard Improvements, R.M. of East St. Paul							26,857.21

Table No. M5

Highway	Work Order No.	Nature & Location of Project	Project Kilo-metres	Kilometres of					Expenditure
				Grading	Gravel-ling	Base Course	Bituminous Pavement	Concrete Pavement	
Carman, Treherne & Altona Yards	540	Installation of Asphalt Storage Tanks, R.M. of South Norfolk & Dufferin							$ 19,983.73
Gillam Yard	551	Erection of Security Fence, Unorganized Territory							3,526.14
Hadashville Yard	561	Installation of Asphalt Storage Tank and Yard Improvements, L.G.D. of Reynolds							11,686.82
Warren & Poplar Point Yards	569	Insulate and Wire 2 Asphalt Storage Tanks, R.M. of Portage la Prairie & Woodlands							7,245.35
Gimli Yard	576	Construction of Sodium Chloride Storage Bin, L.G.D. of Armstrong							8,952.87
Oak Point Yard	577	Construction of Sodium Chloride Storage Bin, R.M. of St. Laurent							8,087.43

Table No. M5

Highway	Work Order No.	Nature & Location of Project	Project Kilo- metres	Kilometres of					Expenditure
				Grading	Gravel- ling	Base Course	Bituminous Pavement	Concrete Pavement	
Boissevain & Crystal City Yards	596	Security and Building Improvements, Village of Crystal City Town of Boissevain							$ 14,151.45
Ashern Yard	611	Construction of Calcium Chloride Storage Building, R.M. of Siglunes							5,936.53
Gypsumville Yard	612	Construction of Calcium Chloride Storage Building, L.G.D. of Graham							5,772.36
Bog Yard	616	Erection of Security Fence, Unorganized Territory							6,490.55
Swan River Yard	636	Construction of Asphalt Storage Tank, R.M. of Swan River							9,949.48
	640	Construction of Equipment Storage Building, Town of Swan River							49,936.62

Table No. M5

				Kilometres of					
Highway	Work Order No.	Nature & Location of Project	Project Kilometres	Grading	Gravelling	Base Course	Bituminous Pavement+	Concrete Pavement	Expenditure
Westbourne & Poplar Point Yards	649	Construction of Sodium Chloride Storage Bins, R.M. of Westbourne & Portage la Prairie							$ 22,136.69
					134.3		*358.7		$3,309,090.38

* Seal Coat

Table No. M7

MAINTENANCE EXPENDITURES
PROVINCIAL TRUNK HIGHWAYS AND PROVINCIAL ROADS
APPROPRIATION 15-4A

	Provincial Trunk Highways	Provincial Roads	Total
Summer Maintenance	$ 8,070,662.16	$15,692,850.00	$23,763,512.16
Winter Maintenance	6,242,397.51	8,920,444.07	15,162,841.58
Bridge	345,886.52	187,964.16	533,850.68
Special Projects	3,288,780.33	3,309,090.38	6,597,870.71
Contingencies	443,346.53	721,431.82	1,164,778.35
Sub Total	18,391,073.05	28,831,780.43	47,222,853.48
Vacation and Sick Leave			2,156,648.34
Traffic Control			3,299,252.37
Maintenance Management			236,749.00
Ferries			66,722.73
Administrative Overheads			(82,297.34)
Maintenance Materials Holding Account			36,840.39
Total			$52,936,768.97

Table No. M8

MAINTENANCE
PROVINCIAL TRUNK HIGHWAYS
APPROPRIATION 15-4A

Highway	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
1	465.4	$1,063,096.32	$ 905,342.62	$1,968,438.94	$4,230
1A	30.7	77,771.35	163,829.82	241,601.17	7,870
2	314.9	288,163.62	225,720.82	513,884.44	1,632
3	396.6	562,296.76	207,221.61	769,518.37	1,940
3A	11.3	22,126.61	2,989.10	25,115.71	2,223
5	394.9	384,504.12	430,455.93	814,960.05	2,064
5A	7.1	6,892.42	5,875.52	12,767.94	1,798
6	588.4	434,913.37	407,372.75	842,286.12	1,431
7	104.6	115,517.45	60,724.16	176,241.61	1,685
8	117.2	168,224.86	65,066.33	233,291.19	1,991
9	84.5	167,271.79	77,112.02	244,383.81	2,892
9A	7.7	22,132.30	39,295.52	61,427.82	7,978
10	726.3	679,493.17	861,271.47	1,540,764.64	2,121
10A	12.1	69,689.50	83,134.10	152,823.60	12,630
11	146.8	204,455.23	71,035.35	275,490.58	1,877
12	259.3	327,747.35	233,667.08	561,414.43	2,165
13	50.4	54,030.18	57,262.46	111,292.64	2,208
14	50.4	79,055.90	14,992.95	94,048.85	1,866
15	76.3	95,364.73	46,991.70	142,356.43	1,866
16	260.7	218,766.40	198,991.76	417,758.16	1,602
16A	9.0	16,479.04	24,387.38	40,866.42	4,541
17	107.5	134,567.83	70,749.32	205,317.15	1,910
18	55.4	59,568.79	37,532.64	97,101.43	1,753
19	5.0	6,695.79	2,876.90	9,572.69	1,915
20	169.9	107,817.69	170,128.02	277,945.71	1,636
20A	5.2	3,024.82	1,966.33	4,991.15	960
21	176.2	150,265.84	111,095.46	261,361.30	1,483
22	20.9	25,772.81	37,828.16	63,600.97	3,043
23	266.8	253,723.59	144,371.32	398,094.91	1,492
24	80.5	90,940.76	36,129.08	127,069.84	1,579
25	28.2	25,495.01	19,936.47	45,431.48	1,611
26	64.4	62,445.82	59,335.38	121,781.20	1,891
27	2.9	1,947.54	6,445.37	8,392.91	2,894
29	0.5	308.30	3,022.73	3,331.03	6,662
30	21.9	19,338.57	10,974.95	30,313.52	1,384
31	22.7	26,770.89	9,052.98	35,823.87	1,578
32	22.7	10,218.09	6,330.02	16,548.11	729
34	124.2	160,818.55	64,164.39	224,982.94	1,811
41	70.7	78,605.96	63,602.86	142,208.82	2,011
42	52.5	52,222.35	45,173.76	97,396.11	1,855

Table No. M8

Highway	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
44	118.9	$ 181,096.90	$ 126,142.67	$ 307,239.57	$2,584
45	106.1	132,806.83	56,357.36	189,164.19	1,783
49	1.6	4,844.76	2,867.30	7,712.06	4,820
50	123.4	127,613.14	115,412.69	243,025.83	1,969
52	35.1	54,073.61	57,674.88	111,748.49	3,184
57	1.6	1,529.41	2,883.91	4,413.32	2,758
59	189.9	314,096.78	136,754.63	450,851.41	2,374
67	45.1	24,341.94	30,543.97	54,885.91	1,217
68	81.1	59,257.61	59,035.00	118,292.61	1,459
75	91.7	106,766.71	95,144.08	201,910.79	2,202
83	333.1	354,351.84	257,908.74	612,260.58	1,838
89	10.0	28,820.33	11,038.10	39,858.43	3,986
100	39.9	198,657.59	127,037.40	325,694.99	8,603
101	40.2	153,863.24	80,140.19	234,003.43	5,821
	6 630.4	$8,070,662.16	$6,242,397.51	$14,313,059.67	$2,159

*The "Cost per km" is rounded-off to the nearest dollar and includes overheads

Table No. M9

MAINTENANCE
PROVINCIAL ROADS
APPROPRIATION 15-4A

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
200	Emerson - P.T.H. No. 100	95.7	$145,898.06	$ 52,886.34	$198,784.40	$2,077
201	Piney - P.T.H. No. 34	233.5	317,959.25	95,553.50	413,512.75	1,771
202	Birds Hill - Lockport	15.0	9,524.92	6,063.09	15,588.01	1,039
203	Piney - Woodridge - P.T.H. No. 12	46.3	40,781.75	10,153.24	50,934.99	1,100
204	P.T.H. No. 101 - East Selkirk	29.6	63,904.61	39,387.80	103,292.41	3,490
205	Sarto - Sperling	81.4	118,937.01	48,471.82	167,408.83	2,057
206	P.T.H. No. 52 - Lockport	59.9	80,045.20	32,218.68	112,263.88	1,874
207	East of Ste. Anne - P.T.H. No. 1E. - P.R. No. 213	57.1	80,312.16	80,538.75	160,850.91	2,817
208	Vita - P.T.H. No. 12	17.2	6,299.47	8,805.03	15,104.50	878
209	Vita - Emerson	44.6	56,723.29	8,810.59	65,533.88	1,469
210	P.T.H. No. 12 - Ste. Anne - Ile des Chenes	100.3	90,300.74	76,994.00	167,294.74	1,668
211	Pinawa - P.T.H. No. 11	14.0	13,538.79	9,230.01	22,768.80	1,626
212	P.R. No. 206 - East Selkirk	23.7	15,170.96	16,658.39	31,829.35	1,343
213	Hazelridge - P.T.H. No. 59	25.9	45,587.49	19,660.48	65,247.97	2,519
214	P.T.H. No. 44 - Milner Ridge - P.T.H. No. 11	25.9	12,333.94	8,912.94	21,246.88	820
215	Beausejour - P.T.H. No. 12	9.8	17,183.66	19,526.59	36,710.25	3,746
216	P.T.H. No. 59 - New Bothwell	34.8	54,527.89	7,979.32	62,507.21	1,796
217	Rosa - St. Jean Baptiste	37.8	48,083.70	10,343.41	58,427.11	1,546
218	Ridgeville - St. Malo	29.5	31,609.25	8,741.09	40,350.34	1,368

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
220	P.T.H. No. 9 - P.R. No. 223	20.3	$ 19,560.41	$ 6,331.50	$ 25,891.91	$1,275
221	P.T.H. No. 101 - Rosser - P.T.H. No. 26	48.0	54,560.26	32,090.55	86,650.81	1,805
222	Gimli - Hnausa	31.4	62,269.60	22,957.01	85,226.61	2,714
224	P.R. No. 325 - Fisher Bay	45.1	33,849.62	37,575.22	71,424.84	1,584
225	Whytewold - P.T.H. No. 8	6.3	9,651.92	12,024.62	21,676.54	3,441
226	P.T.H. No. 68 - P.R. No. 233	14.8	8,669.60	7,211.05	15,880.65	1,073
227	Warren - Westbourne	69.0	113,737.85	30,512.84	144,250.69	2,091
228	P.T.H. No. 8 - P.R. No. 325	14.8	2,492.68	4,269.83	6,762.51	457
229	Winnipeg Beach - Clarkleigh	76.1	32,959.88	31,371.63	64,331.51	845
230	P.T.H. No. 27 - Selkirk	10.6	33,177.24	16,769.21	49,946.45	4,712
231	Gimli - Narcisse	38.8	25,816.99	16,515.90	42,332.89	1,091
232	Matlock - Winnipeg Beach	10.0	18,966.96	13,984.70	32,951.66	3,295
233	Gull Harbour - Fisher Branch	97.5	102,773.27	42,584.34	145,357.61	1,491
234	Riverton - Matheson Island	104.0	97,372.64	43,891.68	141,264.32	1,358
235	Mulvihill - Lake Manitoba Narrows - Ste. Rose du Lac	128.0	80,906.95	134,541.19	215,448.14	1,683
236	P.T.H. No. 101 - Balmoral	35.4	40,500.73	6,146.41	46,647.14	1,318
237	Moosehorn - Spearhill	8.7	6,543.80	4,798.01	11,341.81	1,304
238	The River Road - Lockport	10.9	31,561.17	13,686.16	45,247.33	4,151
239	Grahamdale - Steep Rock	20.1	8,645.54	12,051.68	20,697.22	1,030
240	Darlingford - Delta	123.9	196,613.20	74,120.35	270,733.55	2,185
241	P.T.H. No. 100 - St. Eustache	43.9	96,837.64	55,891.19	152,728.83	3,479
242	Snowflake - Lake Manitoba	153.9	225,108.81	82,031.99	307,140.80	1,996
243	Emerson - Brown	74.8	121,799.12	22,352.15	144,151.27	1,927
244	Manitou - North Rathwell	66.5	101,736.39	50,995.70	152,732.09	2,297
245	Carman - P.R. No. 258	96.1	100,646.96	85,009.58	185,656.54	1,932

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
246	St. Joseph - P.T.H. No. 75 - P.R. No. 200	53.2	$ 78,667.34	$ 15,178.30	$ 93,845.64	$1,764
247	P.T.H. No. 75 - Elm Creek	65.2	171,670.15	38,403.15	210,073.30	3,222
248	Rosenort - P.T.H. No. 6	142.8	177,312.14	84,849.77	262,161.91	1,836
249	P.T.H. No. 26 - Macdonald	29.6	44,204.71	16,503.88	60,708.59	2,051
250	Souris - Rivers - P.R. No. 359	129.9	114,499.10	90,598.85	205,097.95	1,579
251	Goodlands - Saskatchewan Boundary	57.6	37,909.81	21,378.14	59,287.95	1,029
252	P.T.H. No. 3 - Reston - Hargrave	83.7	64,166.78	16,883.69	81,050.47	968
253	Pilot Mound - P.T.H. No. 18	61.3	42,692.75	7,214.93	49,907.68	814
254	P.R. No. 251 - Oak Lake - P.T.H. No. 83	262.2	283,027.47	157,551.25	440,578.72	1,680
255	Oak Lake Resort - Saskatchewan Boundary	52.6	66,521.90	25,758.21	92,280.11	1,754
256	United States Boundary-Elkhorn-McAuley	159.3	139,624.98	60,478.11	200,103.09	1,256
257	Virden - Saskatchewan Boundary	37.3	57,273.64	9,464.40	66,738.04	1,789
259	Wheatland - Virden	56.3	85,978.33	26,122.10	112,100.43	1,991
260	P.T.H. No. 4 - Alonsa	72.9	83,414.96	35,080.88	118,495.84	1,625
261	Amaranth - Riding Mountain	52.8	27,727.97	27,582.35	55,310.32	1,048
262	Junction P.T.H. Nos. 10 & 24 - Riding Mountain National Park	62.6	67,273.51	51,478.94	118,752.45	1,897
263	Scandinavia - P.R. No. 270	29.5	25,857.86	18,042.14	43,900.00	1,488
265	Lake Manitoba - Clanwilliam	93.0	128,856.86	32,114.00	160,970.86	1,731
266	Bowsman - Birch River	23.8	35,688.43	32,900.52	68,588.95	2,882
267	P.T.H. No. 20 - Sifton - P.R. No. 366	50.9	42,882.90	34,602.29	77,485.19	1,522
268	P.T.H. No. 10 - Birch River	45.5	44,373.10	81,553.93	125,927.03	2,768
269	P.R. No. 490 - Ethelbert	68.6	51,913.75	51,505.87	103,419.62	1,508
270	P.T.H. No. 1W. - Basswood - P.R. No. 263	88.8	88,188.90	39,734.91	127,923.81	1,441

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
271	P.T.H. No. 20 - Pine River	32.3	$ 50,600.81	$ 38,995.36	$ 89,596.17	$2,774
272	Camperville - Duck Bay	21.6	9,362.67	7,952.87	17,315.54	802
273	Fishing River - P.T.H. No. 10	24.0	27,040.67	21,202.63	48,243.30	2,010
274	P.T.H. No. 5 & 10 - Gilbert Plains - Ethelbert	89.0	149,364.11	187,810.44	337,174.55	3,788
275	Swan River - Saskatchewan	23.3	14,365.84	11,901.21	26,267.05	1,127
276	Ste. Rose du Lac - Skownan	114.4	104,915.28	70,134.75	175,050.03	1,530
277	P.T.H. No. 10 - Westgate	41.5	28,814.81	28,794.24	57,609.05	1,388
278	P.T.H. No. 50 - Shergrove	41.7	31,417.65	24,149.88	55,567.53	1,333
279	Bowsman - Whitefish Lake	32.8	26,484.06	10,496.95	36,981.01	1,127
282	Westray - Carrot River	23.8	23,717.85	10,499.43	34,217.28	1,438
283	The Pas - Saskatchewan Boundary	39.8	36,436.19	13,512.94	49,949.13	1,255
285	Rahl's Island - The Pas	15.3	27,027.13	31,688.23	58,715.36	3,838
287	Clearwater Lake - P.T.H. No. 10	19.0	30,419.90	9,284.17	39,704.07	2,090
289	P.R. No. 285 - Grace Lake	3.9	16,984.75	7,276.96	24,261.71	6,221
291	Flin Flon - Channing Lake	4.5	25,745.73	11,017.67	36,763.40	8,170
300	St. Anne's Road	5.3	1,737.11	4,282.75	6,019.86	1,136
301	Falcon Lake - West Hawk Lake	11.6	8,874.89	8,784.13	17,659.02	1,522
302	La Broquerie - Beausejour	64.7	87,374.53	22,571.38	109,945.91	1,699
303	La Broquerie - P.R. No. 200	52.9	101,227.50	17,136.38	118,363.88	2,238
304	P.T.H. No. 59 - Wadhope	202.1	195,103.30	92,527.81	287,631.11	1,423
305	P.T.H. No. 59 - Ste. Agathe - Junction P.T.H. Nos. 1 & 4	150.3	270,340.11	73,157.46	343,497.57	2,285
306	P.T.H. No. 15 - Garson	42.3	56,108.02	12,306.51	68,414.53	1,617
307	P.T.H. No. 44 - Seven Sisters Falls	78.2	28,140.76	40,616.64	68,757.40	879
308	Sprague - East Braintree	102.4	74,421.90	38,005.32	112,427.22	1,098
309	P.R. No. 307 - Big Whiteshell Lake	12.2	5,492.04	3,383.86	8,875.90	728

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
310	United States Boundary - South Junction	4.0	$ -	$ 3,477.73	$ 3,477.73	$ 869
311	Blumenort - P.R. No. 200	45.5	93,440.65	36,731.39	130,172.04	2,861
312	Caddy Lake - P.T.H. No. 44	5.5	2,740.24	5,893.74	8,633.98	1,570
313	Pointe du Bois - P.T.H. No. 11	39.8	26,859.10	14,806.03	41,665.13	1,047
314	P.R. No. 315 - Cat Lake	74.0	90,117.60	15,247.77	105,365.37	1,424
315	P.R. No. 313 - Bird Lake	59.7	61,448.66	11,704.58	73,153.24	1,225
316	P.T.H. No. 44 - Lowland	23.7	35,288.91	7,147.35	42,436.26	1,791
317	Lac du Bonnet - P.T.H. No. 59	50.2	68,290.53	17,027.48	85,318.01	1,700
318	Otterburne - Niverville	11.9	15,905.84	1,867.71	17,773.55	1,494
319	P.T.H. No. 59 - Patricia Beach	6.0	11,783.47	1,573.89	13,357.36	2,226
320	Selkirk - Breezy Point	18.0	37,650.39	21,201.85	58,852.24	3,270
321	P.R. No. 220 - Gross Lake	29.0	55,150.76	15,120.57	70,271.33	2,423
322	Grosse Isle - P.R. No. 415	41.4	55,208.22	9,517.04	64,725.26	1,563
323	P.T.H. No. 7 - Argyle - P.R. No. 248	31.4	57,305.21	10,761.83	68,067.04	2,168
324	Camp Morton - Rembrandt	19.6	17,554.41	3,056.51	20,610.92	1,052
325	P.R. No. 234 - Ashern - P.R. No. 235	125.9	146,930.90	64,969.23	211,900.13	1,683
326	Arborg - P.R. No. 233	16.3	12,518.56	10,614.55	23,133.11	1,419
327	P.T.H. No. 6 - Easterville	64.9	64,397.61	40,884.81	105,282.42	1,622
328	Gypsumville - Waterhen River	63.8	52,387.62	17,982.37	70,369.99	1,103
329	Riverton - Broad Valley	47.8	91,000.44	25,983.69	116,984.13	2,447
330	Morris - P.T.H. No. 100	47.3	109,935.67	13,457.64	123,393.31	2,609
331	Fortier - Portage la Prairie	28.0	39,885.94	22,390.23	62,276.17	2,224
332	Rosenfeld - Dacotah	79.3	160,776.01	59,422.52	220,198.53	2,777
334	Domain - P.T.H. No. 6	57.8	144,235.92	33,393.57	177,629.49	3,073
336	P.R. No. 201 - North of Sperling	54.4	148,254.43	24,713.83	172,968.26	3,180
338	Thornhill - Haywood - P.R. No. 331	90.0	139,376.06	40,834.92	180,210.98	2,002
340	P.T.H. No. 3 - Douglas	101.7	85,454.73	46,590.15	132,044.88	1,298

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
341	Lena - Horton	34.0	$ 21,712.16	$ 7,759.14	$ 29,471.30	$ 867
342	Clearwater - Cypress River	49.7	46,737.27	13,535.99	60,273.26	1,213
343	P.T.H. No. 10 - Dand	36.2	15,857.09	7,134.90	22,991.99	635
344	Dunrea - Wawanesa - Brandon	79.8	128,565.42	106,116.37	234,681.79	2,941
345	P.T.H. No. 21 - Saskatchewan Boundary	65.2	31,007.61	18,384.48	49,392.09	758
346	Wakopa - Nesbitt	58.8	76,617.79	23,176.15	99,793.94	1,697
347	P.R. No. 348 - Hartney	40.4	34,996.24	22,542.89	57,539.13	1,424
348	Boissevain - P.R. No. 349	69.2	47,392.25	33,393.22	80,785.47	1,167
349	P.T.H. No. 10 - South of Griswold	36.4	45,392.34	11,935.70	57,328.04	1,575
350	P.T.H. No. 34 - MacGregor - Woodside	70.2	107,137.00	39,392.36	146,529.36	2,087
351	Sidney - Camp Hughes	35.2	20,585.98	29,089.94	49,675.92	1,411
352	P.T.H. No. 34 - Edrans - Birnie	92.4	169,567.24	39,609.83	209,177.07	2,264
353	P.T.H. No. 34 - Brookdale - P.T.H. No. 10	67.1	71,449.33	27,423.27	98,872.60	1,474
354	P.T.H. No. 21 - Strathclair - P.R. No. 359	92.4	88,043.13	55,887.76	143,930.89	1,558
355	Minnedosa - Beulah	85.8	84,657.92	51,402.35	136,060.27	1,586
357	Birnie - Erickson	35.6	20,644.92	16,400.71	37,045.63	1,041
359	P.R. No. 270 - Vista	98.2	97,605.32	98,585.94	196,191.26	1,998
360	McCreary - P.R. No. 235	37.0	38,053.10	25,474.70	63,527.80	1,717
361	McCreary - Mt. Agassiz Ski Resort	6.8	8,006.57	6,149.24	14,155.81	2,082
362	Dauphin - Sifton - P.R. No. 273	39.1	50,512.24	48,412.05	98,924.29	2,530
363	P.T.H. No. 83 - Saskatchewan Boundary	8.9	39,618.05	7,392.14	47,010.19	5,282
364	Rorketon - Winnipegosis	51.3	63,552.01	80,665.53	144,217.54	2,811
365	P.T.H. No. 10 Steeprock River	29.6	21,220.06	17,063.12	38,283.18	1,293
366	Inglis - Grandview - Birch River	222.2	252,722.86	292,639.61	545,362.47	2,454
367	Garland - P.T.H. No. 83	81.7	98,924.47	53,016.69	151,941.16	1,860

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
373	Sipiwesk Lake - P.R. No. 391	31.2	$122,157.45	$ 39,071.34	$161,228.79	$5,168
375	Paint Lake - P.R. No. 391	6.0	2,021.82	1,721.56	3,743.38	624
391	P.T.H. No. 10 - Thompson - Lynn Lake (Nelson House Road - Ruttan Lake Road excluded)	641.0	847,719.85	570,429.50	1,418,149.35	2,212
392	P.R. No. 391 - Snow Lake	42.8	47,241.66	42,211.42	89,453.08	2,090
393	P.R. No. 392 - Osborne Lake	19.0	9,466.45	11,051.28	20,517.73	1,080
394	Lynn Lake - Co-Op Point	100.9	28,128.67	40,540.10	68,668.77	681
395	Snow Lake - Chisel Lake	13.0	21,188.57	15,222.70	36,411.27	2,801
396	Lynn Lake - Dunphy Lakes	45.4	15,990.47	60,227.82	76,218.29	1,679
397	Lynn Lake - Eldon Lake	5.5	1,800.19	11,957.10	13,757.29	2,501
398	P.R. No. 394 - Berge Lake	1.8	357.65	242.18	599.83	333
399	Lynn Lake - Railway Station Road	0.5	-	29.65	29.65	59
400	P.R. No. 217 - Dufrost	11.6	10,208.64	1,263.24	11,471.88	989
401	Hoddinott Road	3.1	100.14	2,694.45	2,794.59	901
402	Sundown - P.T.H. No. 12	10.1	14,846.48	1,070.97	15,917.45	1,576
403	P.R. No. 216 - St. Malo	7.6	17,542.54	4,517.76	22,060.30	2,903
404	P.T.H. No. 12 - East of Marchand	24.1	24,252.09	7,824.73	32,076.82	1,331
405	P.R. No. 206 - Ile des Chenes - P.R. No. 200	23.5	97,384.45	9,500.79	106,885.24	4,548
406	Elma - Whitemouth	9.0	23,517.27	15,244.76	38,762.03	4,307
407	P.R. No. 202 - Henderson Highway	3.7	1,663.95	1,123.35	2,787.30	753
408	P.T.H. No. 11 - Seven Sisters Falls	13.7	18,866.13	10,947.38	29,813.51	2,176
409	P.T.H. No. 101 - P.R. No. 220	4.7	1,909.61	397.30	2,306.91	491
410	St. Andrews Church - P.T.H. No. 8	7.1	14,381.80	7,854.52	22,236.32	3,132
411	P.T.H. No. 6 - St. Ambroise	22.9	32,372.53	4,494.32	36,866.85	1,610
412	P.T.H. No. 26 - Warren	18.7	26,497.72	6,182.07	32,679.79	1,748
413	Petersfield - Gunton	19.8	36,284.94	7,750.21	44,035.15	2,224

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
414	P.R. No. 411 - Lake Francis	11.6	$ 11,650.16	$ 1,773.32	$ 13,423.48	$1,157
415	Teulon - St. Laurent	61.2	73,736.91	21,378.56	95,115.47	1,554
416	P.R. No. 415 - Inwood	14.8	27,639.69	2,699.74	30,339.43	2,050
417	Eriksdale - Lake Manitoba	24.6	19,011.66	7,550.54	26,562.20	1,080
418	Lake Manitoba - West of Mulvihill	29.1	28,234.80	12,531.07	40,765.87	1,401
419	Chatfield - Lake Manitoba	63.2	49,804.34	11,738.06	61,542.40	974
420	P.T.H. No. 75 - La Salle	11.9	31,347.83	4,292.04	35,639.87	2,995
421	P.T.H. No. 75 - South of Altona	20.6	13,802.34	4,651.52	18,453.86	896
422	P.T.H. No. 23 - Rosenort P.O.	11.6	44,559.35	10,745.90	55,305.25	4,768
423	P.R. No. 244 - Crystal City	37.5	53,087.64	20,921.54	74,009.18	1,974
424	P.T.H. No. 2 - P.R. No. 241	10.2	16,932.24	6,297.35	23,229.59	2,277
425	Saskatchewan Avenue	6.0	9,951.95	26,823.78	36,775.73	6,129
426	P.T.H. No. 1W. Poplar Point	25.3	34,117.85	9,238.08	43,355.93	1,714
427	Wilkes Avenue - West	12.8	27,594.44	13,961.75	41,556.19	3,247
428	Winkler - Roland	18.3	45,489.54	6,359.29	51,848.83	2,833
429	St. Adolphe - P.T.H. No. 75	1.4	2,706.16	1,123.63	3,829.79	2,736
430	P.T.H. No. 1W. - St. Ambroise	39.4	61,012.47	7,559.19	68,571.66	1,740
431	St. Leon - P.T.H. No. 23	5.0	5,162.72	6,165.59	11,328.31	2,266
432	P.R. No. 201 - Rosebank	37.5	29,169.54	15,023.01	44,192.55	1,178
433	Wendigo Road	19.6	32,859.07	4,539.86	37,398.93	1,908
434	Lake Minnewasta - Morden	1.4	200.88	-	200.88	143
435	P.T.H. No. 12 - P.R. No. 212	42.3	54,942.11	13,898.67	68,840.78	1,627
440	P.R. No. 253 - Mariapolis	19.2	14,409.42	4,308.14	18,717.56	975
441	P.T.H. No. 83 - Elkhorn	13.8	11,908.17	4,358.51	16,266.68	1,179
442	Mather - P.R. No. 342	19.2	11,082.47	5,001.18	16,083.65	838
443	Ninga - Boissevain	13.4	6,244.40	13,325.45	19,569.85	1,460
444	William Lake - P.R. No. 341	8.4	2,507.56	1,461.11	3,968.67	473

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
445	Melita - Saskatchewan Boundary	29.3	$ 8,783.33	$ 6,439.89	$ 15,223.22	$ 520
446	Max Lake - P.T.H. No. 3	12.1	2,843.66	2,739.80	5,583.46	461
447	P.R. No. 254 - Napinka - P.T.H. No. 83	20.1	30,918.47	8,677.37	39,595.84	1,970
448	P.R. No. 343 - Elgin	11.6	28,388.55	2,888.07	31,276.62	2,696
449	P.R. No. 245 - Holland	16.4	17,526.20	16,455.47	33,981.67	2,072
450	United States Boundary - Whitewater	20.8	16,638.61	12,279.89	28,918.50	1,390
451	Treesbank - P.R. No. 344	5.0	6,840.92	2,605.63	9,446.55	1,889
452	Waskada - Napinka	24.8	35,888.77	9,216.37	45,105.14	1,819
453	Rounthwaite - P.T.H. No. 10	11.4	11,965.82	7,690.01	19,655.83	1,724
454	P.R. No. 346 - West of Souris	9.8	12,267.65	9,307.82	21,575.47	2,202
455	P.T.H. No. 1W. - P.T.H. No. 21	12.9	36,186.00	15,035.93	51,221.93	3,971
457	P.R. No. 340 - Brandon	16.7	6,428.94	15,369.62	21,798.56	1,305
458	P.R. No. 251 - Melita	19.8	26,248.82	2,637.20	28,886.02	1,459
459	Brandon - P.T.H. No. 1W.	9.8	12,800.39	7,616.84	20,417.23	2,083
460	Gladstone - P.R. No. 265	20.0	74,063.86	17,955.82	92,019.68	4,601
461	P.R. No. 242 - P.T.H. No. 34	17.5	53,831.06	11,972.48	65,803.54	3,760
462	P.R. No. 265 - Glenella - P.T.H. No. 5	57.2	66,774.25	42,518.88	109,293.13	1,911
463	P.T.H. No. 21 - P.R. No. 254	3.7	4,765.64	2,838.65	7,604.29	2,055
464	P.T.H. No. 1W. - Brookdale - P.T.H. No. 4	37.7	49,943.80	11,839.29	61,783.09	1,639
465	P.R. No. 258 - Rapid City Junction	29.5	23,020.52	16,926.71	39,947.23	1,354
466	Cordova - North of Franklin	35.6	34,170.10	30,318.57	64,488.67	1,811
467	South of Miniota-Saskatchewan Boundary	32.8	29,128.94	23,974.04	53,102.98	1,619
468	Chater - North of Moore Park	33.1	38,334.20	16,726.16	55,060.36	1,663
469	P.R. No. 354 - Hamiota - P.R. No. 254	26.6	39,752.05	22,848.93	62,600.98	2,353
470	Hamiota - P.R. No. 250	69.5	52,017.22	83,580.44	135,597.66	1,951
471	Neepawa - P.R. No. 250	30.9	36,252.40	10,970.09	47,222.49	1,528

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
472	P.T.H. No. 4 - Vista	17.2	$ 14,285.25	$ 10,823.55	$ 25,108.80	$1,460
473	P.T.H. No. 10 - Newdale	19.6	17,448.74	34,944.36	52,393.10	2,673
474	Arrow River - Solsgirth	45.4	48,023.79	25,531.28	73,555.07	1,620
475	Foxwarren - P.T.H. No. 41	8.4	14,345.50	10,586.90	24,932.40	2,968
476	P.T.H. No. 4 - Angusville-P.R. No. 254	36.0	45,634.71	56,004.32	101,639.03	2,823
477	P.T.H. No. 21 - P.R. No. 254	11.6	8,855.88	2,846.79	11,702.67	1,009
478	Saskatchewan Boundary - Binscarth - North of Inglis	89.3	83,309.30	98,865.22	182,174.52	2,040
479	Angusville - P.T.H. No. 41	18.0	16,214.49	24,297.18	40,511.67	2,251
480	P.T.H. No. 5 - Makinak - Dauphin Lake	61.6	84,098.33	63,791.32	147,889.65	2,401
481	Crane River - P.R. No. 364	43.8	47,370.53	18,557.64	65,928.17	1,505
482	P.T.H. No. 83-Dropmore-P.T.H. No. 5	46.7	13,640.25	47,056.62	60,696.87	1,300
483	Merridale - P.T.H. No. 83	19.0	21,458.41	22,720.66	44,179.07	2,325
484	P.T.H. No. 5 - North of Makaroff	33.0	38,735.69	33,569.23	72,304.92	2,191
485	P.R. No. 366 (South of Minitonas) - P.R. No. 486	16.4	32,611.40	44,276.25	76,887.65	4,688
486	P.R. No. 586 (South of Durban) - P.T.H. No. 83	26.9	23,022.56	39,587.83	62,610.39	2,328
487	Kenville - P.R. No. 588	15.1	30,201.35	7,474.78	37,676.13	2,495
488	P.R. No. 486 - P.T.H. No. 10 (East of Swan River)	21.6	30,389.40	56,369.09	86,758.49	4,017
489	Garland - P.T.H. No. 20	50.4	33,085.14	28,804.52	61,889.66	1,228
490	P.R. No. 481 (West of Toutes Aides) - P.R. No. 269	12.9	8,784.90	2,933.79	11,718.69	908
491	P.R. No. 362 Cross of Freedom	9.2	14,244.84	10,190.00	24,434.84	2,656
500	P.T.H. No. 12 (South Junction)	11.7	29,112.41	4,460.55	33,572.96	2,869
501	Ross - P.T.H. No. 1E.	26.2	46,081.32	12,010.37	58,091.69	2,217

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
502	Lac du Bonnet - P.R. No. 313 - P.T.H. No. 11	9.0	$ 12,411.64	$ 17,891.11	$ 30,302.75	$3,367
503	P.R. No. 308 - P.T.H. No. 1E.	34.6	15,934.23	2,585.69	18,519.92	535
504	Victoria Beach - Lake Winnipeg	2.3	-	628.80	628.80	273
505	Whitemouth River - P.R. No. 503	5.1	1,838.07	158.34	1,996.41	391
506	Prawda - P.T.H. No. 11 - P.T.H. No. 1E.	49.1	57,360.63	3,469.87	60,830.50	1,239
507	P.R. No. 506 - Medika	4.0	4,232.21	193.04	4,425.25	1,106
508	East Selkirk - St. Peters Church	12.9	6,691.04	3,644.49	10,335.53	801
509	P.T.H. No. 59 - P.R. No. 204	1.6	667.77	1,489.03	2,156.80	1,348
510	P.T.H. No. 44 - P.R. No. 435	8.2	10,125.04	3,137.03	13,262.07	1,617
511	P.R. No. 518 - Oak Point	20.0	28,247.55	19,533.32	47,780.87	2,389
512	P.R. No. 419 - P.T.H. No. 68	15.6	13,507.36	3,195.88	16,703.24	1,071
513	P.T.H. No. 6 - Gypsumville - Anama Bay	82.7	80,556.32	35,157.24	115,713.56	1,399
514	P.R. No. 235 - South of Ashern	29.5	30,597.68	12,337.69	42,935.37	1,455
515	Clandeboye - P.T.H. No. 8	5.0	458.15	2,746.54	3,204.69	641
516	P.R. No. 329 - Shorncliffe	14.8	12,441.02	4,884.20	17,325.22	1,171
517	Balmoral - P.R. No. 322	16.4	28,787.63	10,715.99	39,503.62	2,409
518	Woodlands - P.R. No. 229	38.3	57,608.84	8,777.49	66,386.33	1,733
519	Sandy Hook - P.T.H. No. 8	2.7	23,487.92	2,828.71	26,316.63	9,747
521	Rosengart - P.T.H. No. 32	5.1	8,170.17	1,383.73	9,553.90	1,873
522	Halbstadt Road	6.6	14,882.44	1,206.05	16,088.49	2,438
523	P.T.H. No. 75 - Sewell - P.R. No. 332	15.3	18,719.00	3,019.36	21,738.36	1,421
524	Blumenort - P.R. No. 243	3.2	2,910.64	264.39	3,175.03	992
525	United States Boundary - P.R. No. 308	9.7	7,218.50	869.82	8,088.32	834
526	P.T.H. No. 26 - North of High Bluff	6.3	9,254.69	6,403.95	15,658.64	2,486
528	Kaleida - P.T.H. No. 3	7.1	668.78	2,679.12	3,347.90	472
530	P.T.H. No. 23 - Bruxelles	10.0	4,172.02	1,822.85	5,994.87	599

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
532	Mariapolis - P.R. No. 245	11.6	$ 6,489.82	$ 1,662.42	$ 8,152.24	$ 703
541	North of Mather - P.R. No. 258	15.8	5,568.63	1,210.39	6,779.02	429
542	P.R. No. 257 - P.T.H. No. 1	21.2	28,748.74	4,478.94	33,227.68	1,567
543	P.T.H. No. 21 (South of Griswold) - P.R. No. 254	11.6	11,232.58	4,622.87	15,855.45	1,367
545	P.T.H. No. 41 (South of St. Lazare) - Saskatchewan Boundary	8.9	16,940.04	4,198.53	21,138.57	2,375
547	P.R. No. 482 - Saskatchewan Boundary	3.2	2,665.14	2,989.22	5,654.36	1,767
561	Justice - Forrest	11.6	13,511.49	4,226.74	17,738.23	1,529
563	P.T.H. No. 10 - P.R. No. 270 - (North of Rapid City)	6.6	6,349.05	7,562.96	13,912.01	2,108
564	Minnedosa - Bethany	13.2	12,319.19	4,902.45	17,221.64	1,305
565	P.T.H. No. 41 (South of McAuley) - Saskatchewan Boundary	5.0	4,493.11	4,995.21	9,488.32	1,898
566	Oakburn - P.R. No. 359	22.2	25,387.08	16,680.03	42,067.11	1,895
567	Lynch's Point - P.T.H. No. 50	7.6	2,361.50	10,338.47	12,699.97	1,671
568	P.T.H. No. 83 - Wattsview -P.R. No. 475	30.1	30,505.71	57,873.80	88,379.51	2,936
569	Lake Manitoba - P.T.H. No. 50	5.8	4,146.93	1,946.80	6,093.73	1,051
571	P.T.H. No. 41 (North of McAuley) - Saskatchewan Boundary	6.6	7,219.85	10,907.16	18,127.01	2,747
573	Lake Manitoba - P.T.H. No. 59 - (South of Embury)	8.2	9,361.75	1,310.28	10,672.03	1,301
575	P.R. No. 260 - Birnie	25.6	24,315.94	13,200.30	37,516.24	1,465
577	P.R. No. 566 - North of Rossburn	24.8	37,402.89	6,307.73	43,710.62	1,763
579	P.T.H. No. 83 - Millwood - P.R. No. 478	26.4	23,893.58	34,846.18	58,739.76	2,225
581	Ste. Amelie - P.T.H. No. 5	8.2	14,460.78	9,323.41	23,784.19	2,901

Table No. M9

Provincial Road	Location	Kilometres	Summer Expenditure	Winter Expenditure	Total Expenditure	*Cost per km
582	Makinak - Ochre River	16.4	$ 28,106.19	$ 13,603.22	$ 41,709.41	$2,543
583	Shevlin - P.T.H. No. 83	15.3	16,985.55	16,453.27	33,438.82	2,186
584	P.R. No. 366 - Merridale - P.R. No. 594	73.9	90,775.93	141,533.58	232,309.51	3,144
585	P.R. No. 276 - West of Rorketon	18.0	15,652.90	11,826.72	27,479.62	1,527
586	P.T.H. No. 83 - Durban	24.5	43,254.55	28,450.98	71,705.53	2,927
587	P.R. No. 268 - Bowsman	19.3	32,661.13	36,796.58	69,457.71	3,599
588	Benito - P.R. No. 269	40.6	37,989.29	39,131.96	77,121.25	1,900
589	P.R. No. 478 - P.T.H. No. 83	8.4	9,553.03	17,907.03	27,460.06	3,269
591	P.R No. 584 - Roblin	8.7	14,536.02	11,751.08	26,287.10	3,022
592	Deepdale - P.T.H. No. 83	13.0	9,629.17	8,810.00	18,439.17	1,418
593	P.T.H. No. 83 - Deepdale	9.7	11,933.19	14,093.38	26,026.57	2,683
594	P.T.H. No. 83 - Boggy Creek	19.9	25,482.64	17,053.25	42,535.89	2,137
666	Access Roads	381.6	610,419.78	876,138.96	1,486,558.74	
Other Roads	District 10	500.5	644,543.78	251,779.64	896,323.42	
		12,879.0	$15,692,850.00	$8,920,444.07	$24,613,294.07	$1,911

*1. Cost per kilometre is rounded off to the nearest dollar.
2. Cost per kilometre including overheads is $1,907 dollars.

Manitoba

Highways and
Transportation

BRIDGE SECTION

TABLE B1

BRIDGES AND TRANSPORTATION STRUCTURES
CONSTRUCTED, RECONSTRUCTED AND REPAIRED
INCLUDING OPERATION OF FERRIES
APPROPRIATIONS 15-4A, 15-8A, 15-8H

Table No. B1

Highway	Work Order No.	Location	Description of Work	Expenditure
15-4A Provincial Trunk Highways and Provincial Roads				
2	0822	Black Creek R.M. of Oakland	Bridge Maintenance Substructure Repairs	$ 1,187.37
3A	0823	Crystal Creek R.M. of Louise	Bridge Maintenance Repair Cracked Stringers	1,443.28
5	0824	Mineral Creek R.M. of Gilbert Plains	Bridge Maintenance Repair S.P.C.S.P. Arch	1,555.28
6	0808	Saskatchewan River at Grand Rapids	Bridge Maintenance Navigation Light System	4,091.82
13	0805	Elm River R.M. of Portage la Prairie	Bridge Maintenance Repair Pipe Pile	3,358.13
21	0813	Assiniboine River Flood Relief R.M. of Woodworth	Bridge Maintenance Repair Substructure	2,653.33
	0825	Oak River R.M. of Shoal Lake	Bridge Maintenance Repair Substructure	4,000.97
23	0819	Rat River R.M. of De Salaberry	Bridge Maintenance Repair Substructure	7,669.39
50	0817	South Ditch R.M. of McCreary	Replacement of Timber Bridge with C.S.P. Arch	8,148.27
59	0814	Birds Hill Overpass	Bridge Maintenance Expansion Dam Repairs	1,349.00
100 & 101	0800	Perimeter Route Structures	Bridge Maintenance	8,004.21
204	0816	Red River Town of Selkirk	Bridge Maintenance Repair Expansion Joints, Deck	1,941.43

Table No. B1

Highway	Work Order No.	Location	Description of Work	Expenditure
221	0833	Colony Creek R.M. of Rosser	Bridge Maintenance Repair Railing & Superstructure	$ 470.83
250	0830	Assiniboine River R.M. of Daly	Bridge Maintenance Repair Truss Bridge Deck	4,159.59
260	0821	Swan River R.M. of Minitonas	Bridge Maintenance Replace Cracked Stringers	2,237.42
261	0810	Angle Drain R.M. of Glenella	Bridge Maintenance Levelling Superstructure	1,965.60
304	0829	Sandy River E.D. of Rupertsland	Bridge Maintenance Repair of Pile Bents	32,972.59
305	0815	Red River R.M. of Ritchot	Bridge Maintenance Repair Hinged Beam Connections	22,318.39
311	0811	Seine River R.M. of Ste. Anne	Bridge Maintenance Guardrail Repairs	2,274.79
325	0831	Fisher River L.G.D. of Fisher	Bridge Maintenance Guardrail Repairs	739.50
329	0832	Icelandic River R.M. of Bifrost	Bridge Maintenance Repairs to Pile Bents	427.75
334	0834	Assiniboine River Parish of Headingley	Bridge Maintenance Repair Guardrail	330.85
435	0812	Brokenhead River R.M. of Brokenhead	Bridge Maintenance Addition of Flexbeam Guardrail	6,192.98
471	0820	Neepawa Creek R.M. of Rosedale	Bridge Maintenance Replace Stringers & Decking	5,146.11

Table No. B1

Highway	Work Order No.	Location	Description of Work	Expenditure
Miscellaneous				
	0801	R.M. of Brokenhead	Maintenance of Bridge Yard & Buildings - Beausejour	$ 14,323.09
	0802	R.M. of West St. Paul	Maintenance of Explosive Magazine Yard	135.66
	0803	Various	Bridge Maintenance Installation of Lateral Restraint Rods	90,450.68
	0804	City of Winnipeg	Bridge Yard Maintenance - Midland Street	4,930.26
	0806	Various	Bridge Maintenance Patching Decks	150,861.76
	0807	Various	Bridge Maintenance Painting Bridges	135,986.95
	0809	R.M. of Dauphin	Bridge Yard Maintenance - Dauphin	6,019.25
	0826	Nelson River at Norway House E.D. of Rupertsland	Bridge Maintenance Repair Guardrail	758.89
	0827		Repair, Clean & Galvanize Bailey Bridge Parts	3,760.58
	0828		Purchase of Tools for Bridge Maintenance Program	1,984.68
			Maintenance	533,850.68
340	0818	Assiniboine River R.M. of South Cypress	Operation & Maintenance of Treesbank Ferry	66,722.73
			Ferries	66,722.73
15-8A Provincial Trunk Highway				
1	7867	Assiniboine River Diversion R.M. of Portage la Prairie	Modification of Curbs and Guardrail	153,987.43
	7812	Second Creek R.M. of St. Francois Xavier	Construction of a Reinforced Concrete Box Culvert	123,713.48
	7737	Assiniboine River R.M. of Whitehead	Completion of a 127.6 m long Reinforced Concrete Bridge	226,144.65

Table No. B1

Highway	Work Order No.	Location	Description of Work	Expenditure
1	7734	Second Creek R.M. of St. Francois Xavier	Completion of a Timber Bridge in North Service Road	$ 9,238.08
2	7814	Graham Creek R.M. of Pipestone	Construction of a Reinforced Concrete Box Culvert	92,627.09
	7813	Elm Creek Channel R.M. of Grey	Construction of a Reinforced Concrete Box Culvert	100,016.97
5 & 10	7884	Vermilion River R.M. of Dauphin	Construction of an 84.98 m long Reinforced Concrete Bridge	692,148.45
7	7891	Netley Creek R.M. of Rockwood	Construction of a Reinforced Concrete Box Culvert	89,083.68
12	7907	Intermunicipal Drain- R.M. of Ste. Anne	Construction of a Treated Timber and Steel Pile Bridge in the East Service Road	46,174.53
	7868	Ste. Anne Drain R.M. of Ste. Anne	Construction of a Treated Timber Bridge in the West Service Road	30,878.20
16	7878	Whitemud River R.M. of Langford	Deck Resurfacing; Construction of New Curbs & Railing	119,310.43
	7824	Whitemud River R.M. of Westbourne R.M. of Lansdowne	Deck Resurfacing; Construction of New Curbs & Railing on Two Structures	271,470.39
59	7894	Cooks Creek R.M. of St. Clements	Construction of a 51.322 m long Reinforced Concrete Bridge	278,910.88
	7853	Libau Drain R.M. of St. Clements	Completion of a Reinforced Concrete Box Culvert	5,290.46
	7738	Indian Reserve Drain R.M. of St. Clements	Completion of a Reinforced Concrete Box Culvert	13,322.93

Table No. B1

Highway	Work Order No.	Location	Description of Work	Expenditure
75	7870	Two Creeks R.M. of Ritchot	Construction of Two Reinforced Concrete Box Culverts in Northbound Lanes	$ 123,528.07
	7869	Two Creeks R.M. of Ritchot	Construction of Two Reinforced Concrete Box Culverts in Northbound Lanes	98,793.67
	7739	Creek R.M. of Ritchot	Completion of a Reinforced Concrete Box Culvert in Northbound Lanes	4,133.14
	7865	Five Creeks R.M. of Ritchot	Construction of 5 Treated Timber Bridges in the West Service Road	161,054.68
	7864	Five Creeks R.M. of Ritchot	Construction of 5 Treated Timber Bridges in the East Service Road	159,521.36
Miscellaneous				
	7716	Various	Subsurface Soil Exploration	57,134.46
	7715	Various	General Engineering	29,535.09
			Provincial Trunk Highway	2,886,018.12
15-8A Provincial Roads				
209	6529	Roseau River L.G.D. of Stuartburn	Completion of Construction of a 61.6 m long Reinforced Concrete Bridge	55,937.95
234	6859	Sugar Creek R.M. of Bifrost	Construction of a Standard Precast, Prestressed Concrete Girder Bridge	48,696.18
248	6766	Norquay Channel R.M. of Dufferin	Construction of a 48.302 m long Precast, Prestressed Concrete Girder Bridge on Pipe Piles	164,907.82

Table No. B1

Highway	Work Order No.	Location	Description of Work	Expenditure
260	6768	Jordan Drain R.M. of Westbourne	Construction of Two Standard Precast, Prestressed Concrete Girder Bridges	$ 102,604.36
261	6767	Glenella Drain R.M. of Glenella	Construction of Two Treated Timber Access Bridges using Salvaged Stringers & Decking	64,610.54
	6532	Falmouth Drain L.G.D. of Alonsa	Completion of Construction of a Standard Precast, Prestressed Concrete Girder Bridge	11.25
266	6718	Bowsman River R.M. of Minitonas	Construction of a Standard Precast, Prestressed Concrete Girder Bridge	93,355.04
277	6842	Two Creeks E.D. of Swan River	Construction of Two Standard Precast, Prestressed Concrete Girder Bridges	169,507.01
316	6873	Backmann Drain R.M. of Brokenhead	Construction of a Treated Timber Bridge using Salvaged Stringers & Decking	35,409.11
318	6861	Tourond Drain R.M. of De Salaberry	Construction of a Standard Precast, Prestressed Concrete Girder Bridge	95,793.31
334	6668	King Drain R.M. of Macdonald	Construction of a Standard Precast, Prestressed Concrete Girder Bridge	104,179.85
355	6845	Oak River R.M. of Hamiota	Construction of a Standard Precast, Prestressed Concrete Girder Bridge	119,749.94

Table No. B1

Highway	Work Order No.	Location	Description of Work	Expenditure
364	6867	Mossy River R.M. of Mossey River	Construction of a 99.692 m long Reinforced Concrete Bridge	$ 613,636.07
366	6717	Woody River L.G.D. of Mountain	Construction of a 61.6 m long Reinforced Concrete Bridge	447,497.87
	6534	Drain R.M. of Grandview	Completion of Construction of a Precast, Prestressed Concrete Girder Bridge	24,528.66
	6533	Jackfish Creek L.G.D. of Mountain	Completion of Construction of a Precast, Prestressed Concrete Girder Bridge	11.15
419	6849	Burnt Lake Drain Helendale Drain	Construction of Two Standard Precast, Prestressed Concrete Girder Bridges	170,749.89
435	6862	Brokenhead River R.M. of Brokenhead	Construction of a 76.6 m long Reinforced Concrete Bridge	387,160.02
474	6686	Arrow River R.M. of Miniota	Completion of Construction of a Precast, Prestressed Concrete Girder Bridge	10.46
480	6530	Turtle River R.M. of Ste. Rose	Completion of Construction of a 36.1 m long Reinforced Concrete Bridge	42,233.92
488	6865	Minitonas Creek R.M. of Minitonas	Construction of a Standard Precast, Prestressed Concrete Girder Bridge	136,905.91
	6816	Roaring River R.M. of Minitonas	Construction of a Standard Precast, Prestressed Concrete Girder Bridge	197,270.03

Table No. B1

Highway	Work Order No.	Location	Description of Work	Expenditure
489	6531	Garland River L.G.D. of Mountain	Completion of Construction of 24.3 m long Reinforced Concrete Bridge	$ 101.84
722	6855	Red River R.M. of St. Andrews & St. Clements	Consulting Engineering Services	72,109.78
Miscellaneous				
	6513	Various	General Engineering	63,698.42
	6514	Various	Subsurface Soil Exploration	67,761.22
			Provincial Roads	3,278,437.60
15-8A Northern Roads				
10	N427	West Bakers Narrows E.D. of Flin Flon	Design Investigation and Reports by Consultants	6,680.32
391	N452	Footprint River E.D. of Flin Flon	Construction of a 160 ft. Steel Truss Bridge	830.55
304	N442	Manigotagan River E.D. of Rupertsland	Bridge Modifications & Upgrading	216,229.98
			Northern Roads	223,740.85
15-8H Special Jobs				
306	CJF012	Satan's Creek R.M. of Springfield	Construction of a Standard Precast, Prestressed Concrete Girder Bridge	48,956.99
			Special Jobs	48,956.99

Table No. B1

Highway	Work Order No.	Location	Description of Work	Expenditure
Appropriation Summary				
15-4A	Maintenance		$ 533,850.68	
	Ferries		66,722.73	
			600,573.41	$ 600,573.41
15-8A	P.T.H.		2,886,018.12	
	P.R.		3,278,437.60	
	Northern Roads		223,740.85	
			6,388,196.57	6,388,196.57
15-8H	Special Jobs		48,956.99	48,956.99
			GRAND TOTAL	$7,037,726.97

Manitoba

Highways and
Transportation

PLANNING AND DESIGN SECTION

TABLES P1, THROUGH P4

Table No. P1

SUMMARY OF PROVINCIAL TRUNK HIGHWAYS BY SURFACE
(kilometres)

P.T.H. No.	Concrete	Bituminous Plant Mix	Bituminous Road Mix	Asphalt Surface Treatment	Gravel	Total
1	27.2	438.3	-	-	-	465.5
1A	2.1	28.7	-	-	-	30.8
2	49.4	265.6	-	-	-	315.0
3	68.9	203.6	8.2	116.1	-	396.8
3A	-	-	11.3	-	-	11.3
5	4.2	257.5	30.5	103.4	5.2	400.8
5A	2.1	4.5	-	-	-	6.6
6	-	588.4	-	-	-	588.4
7	17.9	86.8	-	-	-	104.7
8	8.6	107.5	-	1.2	-	117.3
9	4.4	79.7	-	0.5	-	84.6
9A	2.9	4.9	-	-	-	7.8
10	0.4	679.7	2.0	41.2	-	723.3
10A	-	12.1	-	-	-	12.1
11	-	125.9	-	21.0	-	146.9
12	6.2	210.4	23.2	19.7	-	259.5
13	-	50.4	-	-	-	50.4
14	16.8	33.7	-	-	-	50.5
15	18.7	23.9	-	33.0	-	75.6
16	-	249.6	-	11.1	-	260.7
16A	-	9.1	-	-	-	9.1
17	-	1.6	22.2	83.7	-	107.5
18	-	25.0	-	30.5	-	55.5
19	-	-	-	-	5.0	5.0
20	-	39.8	35.1	95.2	-	170.1
20A	-	5.2	-	-	-	5.2
21	-	4.2	-	172.1	-	176.3
22	-	0.8	-	20.2	-	21.0
23	47.2	57.5	-	162.3	-	267.0
24	-	7.9	-	72.6	-	80.5
25	-	28.2	-	-	-	28.2
26	1.0	63.4	-	-	-	64.4
27	-	2.9	-	-	-	2.9
29	0.5	-	-	-	-	0.5
30	10.8	11.1	-	-	-	21.9
31	-	-	-	22.7	-	22.7
32	-	22.7	-	-	-	22.7
34	-	9.7	-	114.6	-	124.3
41	-	4.9	10.7	51.4	3.9	70.9
42	-	7.8	-	44.8	-	52.6
44	-	88.9	-	30.1	-	119.0

Table No. P1

P.T.H. No.	Concrete	Bituminous Plant Mix	Bituminous Road Mix	Asphalt Surface Treatment	Gravel	Total
45	-	-	-	106.1	-	106.1
49	-	-	-	1.6	-	1.6
50	-	27.7	39.0	56.8	-	123.5
52	-	30.8	4.4	-	-	35.2
57	-	-	-	1.6	-	1.6
59	21.8	128.1	-	40.1	-	190.0
67	-	17.1	11.6	16.5	-	45.2
68	-	1.6	-	79.5	-	81.1
75	5.2	86.6	-	-	-	91.8
83	-	246.8	1.2	85.3	-	333.3
89	-	-	10.0	-	-	10.0
100	20.0	20.0	-	-	-	40.0
101	38.5	1.8	-	-	-	40.3
	374.8	4402.4	209.4	1634.9	14.1	*6635.6

*Compiled as of January 1, 1985

Table No. P2

SUMMARY OF PROVINCIAL TRUNK HIGHWAYS BY SURFACE TYPE AND NUMBER OF LANES
(kilometres)

Number of Lanes	Concrete	Bituminous Plant Mix	Bituminous Road Mix	Asphalt Surface Treatment	Gravel	Total
2	231.9	3 907.8	207.2	1 633.5	14.0	5 994.4
4 Undivided	3.6	34.3	1.8	-	-	39.6
4 Divided	138.6	456.6	-	0.4	-	595.5
6 Undivided	-	2.1	-	-	-	2.1
6 Divided	-	-	-	-	-	0.0
8 Divided	-	-	-	-	-	0.0
	374.1	4 400.8	209.0	1 633.9	14.0	*6 631.6

*Compiled as of January 1, 1985.

Table No. P3

SUMMARIZED BY SURFACE TYPE
(kilometres)

	Concrete	Bituminous Plant Mix	Bituminous Road Mix	Asphalt Surface Treatment	Gravel	Total
P.T.H.	374.1	4 400.8	208.9	1 633.8	14.0	6 631.6
P.R.	23.4	1 111.3	402.1	2 505.8	8 507.7	12 550.3
Totals	397.5	5 512.1	611.0	4 139.6	8 521.7	*19 181.9

*Compiled as of January 1, 1985.

Table No. P4

HIGHWAY LENGTHS
SUMMARIZED BY ENGINEERING DISTRICTS
(kilometres)

District No.	Provincial Trunk Highways	Provincial Roads	Total
1	635.9	1014.2	1650.1
2	539.8	1172.3	1712.1
3	516.8	1284.0	1800.7
4	751.2	989.3	1704.5
5	765.6	1030.2	1795.7
6	520.2	1135.3	1655.4
7	725.7	1291.2	2016.9
8	554.1	1280.9	1835.0
9	384.7	661.8	1046.4
10	405.9	1217.0	1622.9
11	652.6	1238.9	1891.5
12	215.4	235.3	450.7
Totals	6667.9	12 550.4	*19 181.9

*Compiled as of January 1, 1985

MISCELLANEOUS SECTION

TABLES X1, X2, X3, X4, and X6

Table No. X1

SUMMARY OF CONSTRUCTION AND EXPENDITURES UNDER AIDS TO CITIES, TOWNS, VILLAGES AND UNINCORPORATED VILLAGE DISTRICTS, AIDS TO UNORGANIZED TERRITORIES AND DISORGANIZED MUNICIPALITIES

APPROPRIATION 15-8B & C

Appropriation

15-8B Program 05C

Nature of Work Completed in km and metres

Grading	6.41	
Gravel	2.23	
Re-Gravel	22.10	
Paving	17.76	
Base Course	15.81	
Asphalt Surface Treatment	10.18	
Sealcoating	6.61	
Calcium Chloride	39.89	
Lignosulfonate	7.48	
Dust Oil Treatment	0.80	
Centre Line Painting	1.38	
Concrete Pavement	0.66	
Curb and Gutter	4.42	
Drainage	1.10	
	136.83 km	
Culverts	363 metres	
Expenditure		$1,358,705.59
Total Expenditure under 15-8B Program 05C		$2,736,887.98

Table No. X1

Appropriation

15-8C Program 05D 100%

Nature of Work Completed in km, metres and hectares

Grading	38.06	
Gravel	577.83	
Re-Gravel	831.84	
Claycaping	2.41	
Dust Treatment	22.53	
	1,472.67	km
Culverts	646	metres
Brushing	149.49	ha
Mowing	7.27	ha
Miscellaneous Work		
Dragging and General Repairs		
Bridge Maintenance		
Temporary River Crossing		
Snowplowing - School Division Bus Routes		

Total Expenditure under 15-8C Program 05D 100% $2,137,451.63

Appropriation

15-8C Program 05D 50%

Nature of Work completed in km, metres and hectares

Grading	96.02	
Gravel	255.06	
Re-Gravel	929.95	
Calcium Chloride	3.21	
	1,284.24	
Culverts	1,551	metres
Brushing	164.34	hectares
Bridge Repairs	1	
Miscellaneous Work		
Dragging and General Repairs		
Snowplowing L.G.D. Roads		

Expenditure $ 870,638.82

Total Expenditure under 15-8C Program 05D $1,741,277.48

Table No. X2

AIDS TO CITIES, TOWNS, VILLAGES AND UNINCORPORATED VILLAGE DISTRICTS

APPROPRIATION 15-8B Program 05C

Cities, Towns and Villages	Nature of Work	Kilometres Completed	Expenditures	
			Total	Government
Altona	Grading	0.90	$ 237,668.50	$ 118,834.25
	Gravelling	0.90		
	Re-Gravelling	0.40		
	Paving	0.90		
	Culverts	82 metres		
	Base Course	0.90		
	Calcium Chloride	0.40		
	Curb & Gutter	0.90		
Beausejour	Asphalt Surface Treatment	1.20	25,736.97	12,868.48
Benito	Calcium Chloride	1.20	1,969.50	984.75
Birtle	Paving	0.50	26,155.52	13,077.76
	Calcium Chloride	4.30		
Brandon	Grading	0.60	281,389.48	140,694.74
	Base Course	0.60		
	Curb & Gutter	0.60		
	Paving	0.60		
Carberry	Sealcoating	1.60	16,926.08	7,000.00
Carman	Re-Gravelling	0.40	50,079.74	25,039.87
	Paving	1.10		
	Calcium Chloride	0.40		
Cartwright	Sealcoating	1.20	7,396.14	3,698.08
Dauphin	Paving	0.50	195,157.16	97,578.58
	Excavate & Base Course	0.50		
	Curb & Gutter	1.00		
Deloraine	Paving	0.20	25,549.50	12,774.75
	Excavate & Base Course	0.20		
	Curb & Gutter	0.40		
	Calcium Chloride	0.20		
Elkhorn	Re-Gravelling	1.10	2,157.06	1,078.53
	Calcium Chloride	1.10		
Ethelbert	Calcium Chloride	0.80	900.36	450.18

Table No. X2

Cities, Towns and Villages	Nature of Work	Kilometres Completed	Expenditures	
			Total	Government
Gladstone	Paving	0.10	$ 22,661.40	$ 11,330.70
	Calcium Chloride	0.10		
Gretna	Re-Gravelling	3.00	5,008.68	2,504.34
	Lignosulfonate	3.00		
Killarney	Sealcoating	1.50	13,277.56	6,638.78
	Paving	0.15		
Minnedosa	Calcium Chloride	0.16	456.80	228.40
Morden	Re-Gravelling	1.26	6,104.64	3,052.32
	Calcium Chloride	1.26		
Emerson	Base Course	0.58	23,614.88	11,675.00
	Asphalt Surface Treatment	0.70		
Melita	Sealcoating	0.91	4,962.98	2,481.49
	Calcium Chloride	0.37		
Hartney	Sealcoating	0.34	2,239.39	1,119.70
Morris	Base Course	0.38	87,313.26	43,656.63
	Curb & Gutter	0.48		
	Paving	0.38		
Notre-Dame de Lourdes	Grading	0.05	17,288.32	8,644.16
	Re-Gravel	0.83		
	Lignosulfonate	0.83		
	Base Course	0.05		
	Curb & Gutter	0.05		
	Paving	0.05		
Portage la Prairie	Base Course	2.16	311,386.59	155,693.30
	Paving	2.64		
Rapid City	Calcium Chloride	0.16	489.56	244.78
Russell	Calcium Chloride	1.76	1,250.00	300.00
St. Rose du Lac	Excavation & Granular Fill	0.09	12,099.42	6,049.71
	Base Course	0.09		

Table No. X2

Cities, Towns and Villages	Nature of Work	Kilometres Completed	Expenditures Total	Government
St. Claude	Grading	0.32	$ 54,149.05	$ 27,074.52
	Gravel	0.93		
	Calcium Chloride	0.93		
	Base Course	0.32		
	Paving	0.32		
Snow Lake	Calcium Chloride	2.40	22,464.24	11,000.00
	Base Course	2.40		
Somerset	Grading	0.24	37,915.10	18,957.55
	Base Course	0.24		
	Concrete Pavement	0.24		
Selkirk	Paving	1.06	90,937.44	45,468.72
	Curb & Gutter	0.38		
Ste. Anne	Base Course	0.22	23,146.83	11,573.42
	Curb & Gutter	0.22		
	Paving	0.22		
Rossburn	Calcium Chloride	0.64	1,150.86	575.43
Pilot Mound	Grading	0.21	6,066.97	3,033.48
	Base Course	0.21		
	Asphalt Surface Treatment	0.21		
Plum Coulee	Paving	0.27	54,064.24	27,032.12
	Drainage	0.80		
Teulon	Base Course	1.92	74,363.93	37,181.97
	Paving	1.92		
Steinbach	Calcium Chloride	0.96	1,815.53	907.77
Treherne	Grading	0.42	79,278.39	36,500.00
	Base Course	0.42		
	Concrete	0.42		
	Paving	0.11		
Virden	Excavate	0.06	6,567.10	3,283.55
	Base Course	0.06		
	Curb & Gutter	0.12		
	Paving	0.06		

Table No. X2

Cities, Towns and Villages	Nature of Work	Kilometres Completed	Expenditures Total	Government
Winkler	Grading	1.73	$ 267,007.93	$ 133,503.97
	Centre Line Painting	1.38		
	Lignosulfonate	1.54		
	Base Course	1.73		
	Paving	1.38		
	Sealcoating	0.35		
Waskada	Calcium Chloride	0.30	4,565.46	2,282.73
	Sealcoating	0.37		
Thompson	Paving	1.01	123,349.73	59,000.00
UNINCORPORATED VILLAGE DISTRICTS				
L.G.D. of Alexander				
St. George	Grading	0.80	33,470.16	16,735.08
	Culverts	127 metres		
	Base Course	0.80		
	Asphalt			
	Surface Treatment	0.80		
R.M. of Birtle				
Foxwarren	Dust Oil Treatment	0.16	940.18	470.09
R.M. of Blanshard				
Cardale	Calcium Chloride	0.96	652.74	326.37
R.M. of Dufferin				
Graysville	Re-Gravel	0.27	878.59	439.30
	Lignosulfonate	0.27		
Roseisle	Re-Gravel	0.70	1,410.71	705.35
	Lignosulfonate	0.70		
R.M. of Franklin				
Dominion City	Base Course	0.08	9,476.35	4,738.17
	Asphalt			
	Surface Treatment	0.54		
R.M. of Gimli				
South Beach	Asphalt			
	Surface Treatment	1.78	3,947.63	1,973.81
R.M. of Glenella				
Glenella	Re-Gravel	1.60	1,863.90	931.95
	Calcium Chloride	1.60		
L.G.D. of Alonsa				
Amaranth	Asphalt			
	Surface Treatment	0.32	23,411.96	11,705.98

Table No. X2

Cities, Towns and Villages	Nature of Work	Kilometres Completed	Expenditures	
			Total	Government
UNINCORPORATED VILLAGE DISTRICTS				
R.M. of Cameron				
Lauder	Calcium Chloride	0.75	$ 683.03	$ 341.50
R.M. of Grey				
Elm Creek	Re-Gravel	1.14	2,754.51	1,377.25
	Lignosulfonate	1.14		
Haywood	Re-Gravel	0.85	2,117.64	1,058.82
	Calcium Chloride	0.85		
R.M. of Harrison				
Newdale	Calcium Chloride	0.64	1,064.07	532.03
Sandy Lake	Dust Oil Treatment	0.64	988.00	494.00
R.M. of Lawrence				
Rorketon	Asphalt Surface Treatment	3.22	4,383.33	2,191.67
R.M. of Lorne				
Swan Lake	Grading	0.58	127,188.12	63,594.06
	Base Course	0.58		
	Paving	1.47		
R.M. of Montcalm				
St. Jean-Baptiste	Culverts	22 metres	41,164.53	20,582.26
	Calcium Chloride	0.38		
	Base Course	0.10		
	Curb & Gutter	0.27		
	Paving	0.45		
Letellier	Asphalt Surface Treatment	0.42	3,092.95	1,546.48
R.M. of Mossey River				
Fork River	Asphalt Surface Treatment	0.24	1,621.09	810.55
R.M. of Louise				
Clearwater	Sealcoating	0.34	3,349.56	1,674.78
R.M. of Macdonald				
Oak Bluff	Paving	0.61	5,672.88	2,836.44

Table No. X2

Cities, Towns and Villages	Nature of Work	Kilometres Completed	Expenditures Total	Expenditures Government
UNINCORPORATED VILLAGE DISTRICTS				
R.M. of Hanover				
New Bothwell	Base Course	0.27	$ 6,300.41	$ 3,150.21
	Asphalt Surface Treatment	0.27		
Blumenort	Base Course	0.43	27,384.69	13,692.34
	Paving	0.43		
R.M. of La Broquerie				
La Broquerie	Base Course	0.29	39,227.59	19,613.80
	Paving	0.29		
R.M. of Lakeview				
Langruth	Calcium Chloride	0.96	746.25	373.13
R.M. of Morris				
Sperling	Re-Gravel	0.78	2,423.39	1,211.69
	Calcium Chloride	0.78		
Lowe Farm	Re-Gravel	1.28	4,282.70	2,141.35
	Calcium Chloride	1.28		
Rosenort	Re-Gravel	2.19	8,884.95	4,442.48
	Calcium Chloride	2.19		
R.M. of North Norfolk				
Austin	Calcium Chloride	1.60	1,582.05	791.02
R.M. of Ochre River				
Ochre River	Re-Gravel	0.82	1,969.88	984.94
	Calcium Chloride	0.82		
R.M. of Pembina				
Snowflake	Re-Gravel	0.59	1,678.88	839.44
	Calcium Chloride	0.59		
R.M. of Roland				
Roland	Re-Gravel	1.42	6,021.94	3,000.00
	Calcium Chloride	1.42		
L.G.D. of Mountain				
Birch River	Calcium Chloride	1.60	2,759.96	1,379.98
R.M. of Rockwood				
Gunton	Paving	0.08	4,651.20	2,325.60
Stony Mountain	Culverts	32 metres	36,826.84	18,414.42
	Paving	0.48		

Table No. X2

Cities, Towns and Villages	Nature of Work	Kilometres Completed	Expenditures	
			Total	Government
UNINCORPORATED VILLAGE DISTRICTS				
R.M. of Roblin				
Mather	Drainage	0.30	$ 4,374.92	$ 2,187.46
R.M. of South Norfolk				
Rathwell	Re-Gravel	1.47	2,133.56	1,066.78
	Calcium Chloride	1.47		
R.M. of Strathclair				
Elphinstone	Calcium Chloride	0.32	3,286.42	
	Asphalt Surface Treatment	0.48		
Strathclair	Calcium Chloride	1.12	1,418.18	709.09
R.M. of Thompson				
Miami	Grading	0.16	34,967.80	17,483.90
	Re-Gravel	1.26		
	Calcium Chloride	1.26		
	Base Course	0.16		
	Curb & Gutter	0.16		
	Paving	0.16		
Rosebank	Re-Gravel	0.40	746.90	373.45
	Calcium Chloride	0.40		
R.M. of Victoria				
Holland	Calcium Chloride	0.80	1,116.33	558.17
R.M. of Wallace				
Hargrave	Re-Gravel	0.34	924.26	400.00
	Calcium Chloride	0.34		
R.M. of Whitehead				
Alexander	Paving	0.32	22,531.10	11,265.55
R.M. of Whitewater				
Minto	Soil Cement Base Course	0.06	6,830.15	3,415.07
R.M. of Woodlands				
Marquette	Grading	0.40	17,090.55	8,545.28
	Gravel	0.40		
R.M. of Saskatchewan				
Basswood	Calcium Chloride	0.32	412.86	200.00
			2,736,887.98	1,358,705.59

Table No. X2

Cities, Towns and Villages	Nature of Work	Kilometres Completed	Expenditures Total	Government
Nature of Work Completed in km and metres				
	Grading	6.41		
	Gravel	2.23		
	Re-Gravel	22.10		
	Paving	17.76		
	Base Course	15.81		
	Asphalt Surface Treatment	10.18		
	Sealcoating	6.61		
	Calcium Chloride	39.89		
	Lignosulfonate	7.48		
	Dust Oil Treatment	0.80		
	Centre Line Painting	1.38		
	Concrete Pavement	0.66		
	Curb & Gutter	4.42		
	Culverts	363 metres		
	Drainage	1.10		
		136.83 km		
		363 metres		

Table No. X3

WORK AND ROADS IN UNORGANIZED TERRITORY AND DISORGANIZED MUNICIPALITIES

APPROPRIATION 15-8C Program 05D

Territory	Nature of Work	Kilometres Completed	Expenditures Total	Government
UNORGANIZED				
Dauphin	Dragging and General Repairs		$ 37,456.60	$ 37,456.60
	Re-Gravel	41.80		
	Culverts	12 metres		
Emerson	Dragging and General Repairs		228,675.91	228,675.91
	Grading	3.60		
	Gravel	3.60		
	Re-Gravel	270.00		
	Culverts	46 metres		
Interlake - Lakeside - Gimli	Dragging and General Repairs		148,842.05	148,842.05
	Grading	9.10		
	Gravel	9.10		
	Re-Gravel	95.20		
	Culverts	297 metres		
	Brushing	20.50 ha		
Interlake	Dragging and General Repairs		325,920.64	325,920.64
	Grading	4.80		
	Gravel	4.80		
	Re-Gravel	241.50		
	Brushing	116.00 ha		
	Culverts	97 metres		
Lac du Bonnet	Dragging and General Repairs		169,249.32	169,249.32
	Grading	5.62		
	Gravel	53.10		
	Re-Gravel	11.25		
	Culverts	60 metres		
	Brushing	2.42 ha		
Minnedosa	Dragging and General Repairs		64,226.87	64,226.87
	Grading	1.60		
	Gravel	80.47		

Table No. X3

Territory	Nature of Work	Kilometres Completed	Expenditures Total	Government
UNORGANIZED				
Roblin-Russell	Dragging and General Repairs		$ 23,193.90	$ 23,193.90
	Gravel	45.87		
	Dust Treatment	22.53		
	Brushing	1.42 ha		
	Mowing	3.23 ha		
Roblin - Russell - Swan River	Bridge Maintenance		9,422.38	9,422.38
Rupertsland	Dragging and General Repairs		50,792.21	50,792.21
	Gravel	39.42		
	Re-Gravel	8.04		
	Brushing	1.82 ha		
Springfield	Dragging and General Repairs		37,235.91	37,235.91
	Grading	3.21		
	Gravel	21.72		
	Re-Gravel	10.05		
	Claycaping	2.41		
	Brushing	1.20 ha		
Springfield - La Verendrye	Dragging and General Repairs		53,250.01	53,250.01
	Re-Gravel	65.50		
	Culverts	14 metres		
Ste. Rose	Dragging and General Repairs		241,550.83	241,550.83
	Grading	5.31		
	Gravel	5.31		
	Re-Gravel	88.50		
	Culverts	63 metres		
	Brushing	4.85 ha		
Swan River	Dragging and General Repairs		208,835.39	208,835.39
	Grading	4.82		
	Gravel	148.85		
	Culverts	57 metres		
	Brushing	1.28 ha		
	Mowing	4.04 ha		
	Temporary River Crossing			
The Pas	Dragging and General Repairs		126,094.87	126,094.87
	Gravel	165.59		

Table No. X3

Territory	Nature of Work	Kilometres Completed	Expenditures Total	Expenditures Government
UNORGANIZED				
Snowplowing - School Division Bus Routes			$ 412,704.74	$ 412,704.74
			$2,137,451.63	$2,137,451.63

Nature of Work Completed in km, metres and hectares

Grading	38.06	
Gravel	577.83	
Re-Gravel	831.84	
Claycaping	2.41	
Dust Treatment	22.53	
	1,472.67	km
Culverts	646	metres
Brushing	149.49	ha
Mowing	7.27	ha
Miscellaneous Work		
Dragging and General Repairs		
Bridge Maintenance		
Temporary River Crossing		
Snowplowing - School Division Bus Routes		

Table No. X4

WORK AND ROADS IN UNORGANIZED TERRITORY AND DISORGANIZED MUNICIPALITIES

APPROPRIATION 15-8C Program 05D

Territory	Nature of Work	Kilometres Completed	Expenditures Total	Expenditures Government
LOCAL GOVERNMENT DISTRICT				
Alexander	Dragging and General Repairs		$ 159,145.63	$ 79,572.82
	Grading	4.82		
	Gravel	168.96		
	Culverts	40 metres		
	Brushing	2.83 ha		
Alonsa	Dragging and General Repairs		138,642.41	69,321.21
	Grading	5.95		
	Gravel	5.95		
	Re-Gravel	137.75		
	Culverts	8 metres		
	Brushing	35.20 ha		
	Bridge Repairs	1		
Armstrong	Dragging and General Repairs		122,264.97	61,132.49
	Grading	6.90		
	Gravel	9.30		
	Re-Gravel	60.70		
	Culverts	216 metres		
	Brushing	44.00 ha		
Consol	Dragging and General Repairs		43,218.99	21,608.50
	Gravel	51.49		
	Culverts	12 metres		
	Calcium Chloride	3.21		
Fisher	Dragging and General Repairs		181,257.29	90,628.65
	Grading	19.90		
	Culverts	290 metres		
	Brushing	53.00 ha		
Grahamdale	Dragging and General Repairs			
	Grading	8.10		
	Gravel	8.10		
	Re-Gravel	55.00		
	Culverts	65 metres		
	Brushing	10.00 ha		

Table No. X4

Territory	Nature of Work	Kilometres Completed	Expenditures Total	Government
LOCAL GOVERNMENT DISTRICT				
Mountain	Dragging and General Repairs		$ 177,503.00	$ 88,751.50
	Grading	10.45		
	Re-Gravel	109.42		
	Culverts	235 metres		
	Brushing	7.28 ha		
Park	Dragging and General Repairs		125,421.42	62,710.72
	Grading	3.20		
	Re-Gravel	288.05		
	Culverts	146 metres		
	Brushing	0.80 ha		
Piney	Dragging and General Repairs		192,596.21	96,298.12
	Grading	11.00		
	Re-Gravel	118.50		
	Culverts	217 metres		
Reynolds	Dragging and General Repairs		104,308.39	52,154.20
	Grading	6.00		
	Gravel	11.26		
	Re-Gravel	26.50		
	Culverts	90 metres		
Stuartburn	Dragging and General Repairs		169,101.52	84,550.76
	Grading	12.50		
	Re-Gravel	84.00		
	Culverts	140 metres		
Residents & Miscellaneous	Dragging and General Repairs		104,930.68	52,466.36
	Grading	7.20		
	Re-Gravel	50.03		
	Culverts	92 metres		
	Brushing	11.23 ha		
Snowplowing - Various	50/50 basis		222,886.97	111,443.49
			1,741,277.48	870,638.82

Table No. X4

Territory	Nature of Work	Kilometres Completed	Expenditures	
			Total	Government
LOCAL GOVERNMENT DISTRICT				
Nature of Work Completed in km, metres and hectares				
	Grading	96.02		
	Gravel	255.06		
	Re-Gravel	929.95		
	Calcium Chloride	3.21		
		1,284.24 km		
	Culverts	1,551 metres		
	Brushing	164.34 hectares		
	Bridge Repairs	1		
	Miscellaneous Work			
	Dragging and General Repairs			
	Snowplowing L.G.D. Roads			

Table No. X6

1984-85 DRILLING SUMMARY FOR SUBGRADE EVALUATION BY B-30 DRILL TRUCK

District	Total No. and Types of Soil Surveys: Total	Preliminary (survey and design)	Final (for pavement design)	Special (surface failure evaluations)	No. of km	No. of Hours	No. of Holes	No. of Samples	Total Depth Drilled (m)
1	4	3	--	1	23.1	44.5	60	206	91.2
2	--	--	--	--	--	--	--	--	--
3	3	3	--	--	35.3	101.0	343	977	512.0
4	1	1	--	--	1.6	22.5	27	113	41.0
5	2	1	--	1	--	39.5	119	35	178.5
6	3	3	--	--	49.3	179.0	483	2052	1487.5
7	3	--	2	1	23.9	55.5	86	195	145.5
8	6	4	2	--	47.6	145.5	297	927	633.4
9	2	2	--	--	6.1	46.0	78	248	121.9
10	2	1	--	1	29.0	162.0	462	327	609.8
11	4	4	--	--	46.2	187.5	354	830	427.2
12	--	--	--	--	--	--	--	--	--
Totals	30	22	4	4	262.1	983.0	2309	5910	4248.0
1983-84 Totals	51	38	9	5	532.0	1374.5	3565	8275	4820.0

NUMBER OF SAMPLES

	Per metre drilled	per hole	per hour	per km distance
1984-85	1.39	2.56	6.01	22.5
1983-84	1.42	2.32	6.02	15.6

Manitoba

Highways and
Transportation

AIR AND RADIO SERVICES SECTION

TABLES AR1, THROUGH AR3

Table No. AR1

AIR AND RADIO SERVICES
AIRPORT OPERATIONS AND MAINTENANCE
MARINE SERVICES

Work Order No.	Location	Description of Work	Expenditure
15-4D-2			
	Other Expenditures		$1,133,539.95
MWT 001	Jenpeg - Norway House	Resource Roads Maintenance	36,764.18
002	Matheson Island Ferry Access Road	Maintenance	2,264.69
003	Sea Falls - Cross Lake	Dock Improvements	3,050.59
15-8E-1A Improvements to Airports			
RA 01	Swan River Airport	Granular Base Course & Bituminous Pavement	105,757.54
AP 059	Ilford	Terminal Renovations	10,590.54
060	South Indian Lake	Terminal Renovations	11,620.43
061	Island Lake	Terminal Renovations	14,674.76
062	St. Theresa Point	Terminal Reinsulation	11,021.16
063	God's Lake Narrows	Terminal Insulation	8,773.70

Table No.. AR1

Work Order No.	Location	Description of Work	Expenditure
15-8E-1A Improvements to Airports			
AP 064	God's Lake Narrows	Shop Renovations	$ 12,133.55
065	Cross Lake	Shop Renovations	5,717.32
066	Red Sucker Lake	Shop Renovations	11,066.16
067	Pukatawagan	Shop Renovations	16,277.59
068	Little Grand Rapids	Shop Renovations	7,688.75
069	Island Lake	Shop Renovations	12,430.64
070	Brochet	Shop Renovations	
071	Cross Lake	Gravel Screening	9,871.47
072	Little Grand Rapids	Brushing	9,288.43
073	Thicket Portage	Brushing	9,081.52
074	Cormorant	Brushing	6,142.17
075	Various Locations	Staff Training	11,963.54
076	Little Grand Rapids	Calcium R.A. Treacy Settlement	25,000.00

Table No. AR1

Work Order No.	Location	Description of Work	Expenditure
15-8E-2A Northern Development Projects (Recoverable from Northern Affairs)			
CTN 157	Various Airports	Purchase & Install Communication Equipment	$ 19,135.02
165	Poplar River	Airport Location, Survey & Design	763.05
166	Wasagomach Airport	Preliminary Engineering	28,000.56
167	Pukatawagan	Installation of Non-Directional Beacon	31,005.33
168	Shamattawa	Construction of Firehall	26,914.00
169	Cross Lake Airport	Installation of Water & Sewer System	20,553.60
170	Lac Brochet Airport	Installation of Non-Directional Beacon	13,006.78
171	Berens River	Runway Light Installation	26,925.80
172	Bloodvein Airport	Runway Light Installation	21,773.93
173	Ilford Airport	Runway Light Installation	23,368.30
174	Lac Brochet	Runway Light Installation	30,508.73
175	Pikwitonei	Runway Light Installation	25,662.04

Table No. AR1

Work Order No.	Location	Description of Work	Expenditure
15-8E-2A Northern Development Projects (Recoverable from Northern Affairs)			
CTN 176	St. Theresa Point	Runway Light Installation	$ 21,609.51
177	Thicket Portage	Runway Light Installation	26,281.78
178	Cross Lake	Construction of Firehall	17,081.00
179	South Indian Lake	Construction of Firehall	20,736.96
180	Little Grand Rapids	Construction of Firehall	22,720.77
181	Thicket Portage	Construction of Firehall	26,218.04
182	Pikwitonei	Construction of Firehall	23,609.56
183	Ilford	Construction of Firehall	21,060.75
184	St. Theresa Point	Construction of Firehall	22,613.80
185	Bloodvein	Construction of Firehall	26,345.16
186	S. Indian Lake Airport	Stockpiling Traffic Gravel	154,291.17

Table No. AR1

Work Order No.	Location	Description of Work	Expenditure
15-8E-1H Resource Roads			
CTN 202	Jenpeg - Cross Lake	Grade Consolidation, Grading & Drainage	$ 59,198.02
15-8E-2B Community Roads (Recoverable from Northern Affairs)			
CTN 311	Norway House Community Roads	Upgrading Embankments, Drainage & Gravelling	392,013.44
			*$2,592,484.88

*Appropriation Summary

15-4D-2	1,175,619.41
15-8E-1A	315,468.37
15-8E-2A	650,185.64
15-8E-1H	59,198.02
15-8E-2B	392,013.44

Total $2,592,484.88

Table No. AR2

SUMMARY OF AIR SERVICES FLIGHT DISTANCE (km)

Department or Agency	1983-1984	1984-1985
Agriculture	7 009	8 696
Attorney-General	97 178	149 332
Business, Development & Tourism	9 068	14 388
Communities Economic Development Fund	3 211	1 888
Community Services & Corrections	26 674	28 004
Consumer & Corporate Affairs	--	1 168
Co-operative Development	1 802	3 496
Crown Investments	2 092	--
Culture, Heritage & Recreation	21 718	16 730
Education	38 028	4 266
Employment Services & Economic Security	9 736	27 050
Energy & Mines	13 486	30 906
Environment & Workplace, Safety & Health	22 297	12 166
Executive Council	12 504	16 624
Finance	3 174	5 160
Government Services	8 199	11 061
Health	16 302	18 003
Highways & Transportation	161 212	164 558
Housing	13 888	5 586
Industry, Trade and Technology	998	9 946
Labour	14 307	1 458
Legislation	1 368	--
Man-For	2 333	6 904
Manitoba Development Corporation	2 454	2 048
Manitoba Hydro	5 512	2 392
Manitoba Telephone System	9 479	3 445
Municipal Affairs	4 337	6 720
Natural Resources	418 909	431 448
Northern Affairs	85 639	93 037
Northern Patient Transportation Program	344 677	424 656
Urban Affairs	724	--
Miscellaneous	2 116	34 219
TOTAL PROVINCIAL DEPARTMENTS & AGENCIES	1 360 431	1 535 355
TOTAL FEDERAL DEPARTMENTS	1 641	1 736
TOTAL DISTANCE FLOWN	1 362 072	1 537 091

Table No. AR3

SUMMARY BY BASE BY AIRCRAFT TYPE (km)

WINNIPEG

Citation	515,512
Navajo	640
Aztec	106,376
C-337	87,331
CL-215	96,440
Turbos	--
Otters	--
Beaver	408
TOTAL	806,707

THOMPSON

Citation	--
Navajo	185,160
Aztec	16,024
C-337	--
CL-215	22,528
Turbos	169,576
Otters	98,672
Beaver	37,904
TOTAL	529,864

LAC DU BONNET

Turbos	104,600
Otters	7,696
Beaver	352
TOTAL	112,648

THE PAS

Turbos	--
Otters	27,968
Beaver	--
CL-215	20,936
TOTAL	48,904

GOD'S NARROWS

Turbos	38,968
Otters	--
Beaver	--
TOTAL	38,968

GRAND TOTAL	1,537,091

Manitoba

Highways and
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MOTOR VEHICLE BRANCH

TABLES MV1, THROUGH MV4

Table No. MV1

APPEAL BOARD STATISTICS

Hearings Held & By Location

Month	Applications Received	Hearing Locations							Total Hearings
		Winnipeg	Brandon	Dauphin	Steinbach	Beausejour	Thompson	The Pas	
January	317	22	2	1	1	1	-	-	27
February	311	20	2	3	1	1	1	2	30
March	357	18	6	2	1	1	-	-	28
April	376	20	4	1	2	1	-	-	28
May	375	19	3	1	1	1	1	2	28
June	306	22	5	2	2	1	-	-	32
July	312	18	4	2	2	1	1	1	29
August	319	18	5	1	1	1	-	-	26
September	351	16	4	1	1	1	-	-	23
October	393	25	2	2	1	2	1	2	35
November	338	26	4	2	1	1	-	-	34
December	289	14	2	1	1	-	-	-	18
TOTALS	4,044	238	43	19	15	12	4	7	338
Percent Change Over 1982	+4%	+6.7%	Nil	+18.7%	NIL	NIL	NIL	NIL	+4.3%

Table No. MV2

Application Volume and Hearings Comparison 1981 to 1984 Inclusive

Month	Applications Received				Total Hearings Held			
	1981	1982	1983	1984	1981	1982	1983	1984
January	316	274	327	317	28	23	29	27
February	302	260	310	311	23	25	28	30
March	401	348	347	357	28	25	32	28
April	361	347	338	376	35	29	24	28
May	356	368	364	375	32	22	29	28
June	396	357	327	306	29	36	26	32
July	293	324	311	312	28	25	29	29
August	269	310	299	319	24	35	23	26
September	312	296	307	351	31	34	29	23
October	350	305	343	393	27	24	21	35
November	349	331	309	338	23	25	36	34
December	286	266	307	289	29	23	18	18
TOTALS	3,991	3,786	3,889	4,044	337	326	324	338

Table No. MV3

Applications Processed and Hearing Locations

Location	No. of Hearings Held	No. of Applications Processed
Winnipeg	238	2,545
Brandon	43	480
Dauphin	19	205
Steinbach	15	170
Beausejour	12	130
The Pas	7	87
Thompson	4	53
TOTALS	338	3,670
Applications Pending or Cancelled		374

Table No. MV4

Hearing Days - Locations & Frequency

Location	Frequency	Days	Times	Comments
Winnipeg	Weekly	Variable Days Monday Thru Friday Inclusive	Morning & Afternoon	No specific firm days
Brandon	Bi-weekly	Thursdays	Morning & Afternoon	Hearings on successive days
Dauphin	Every Four Weeks	Wednesdays	Morning & Afternoon	Hearings on successive days
Steinbach	Every Four Weeks	Wednesdays	Morning & Afternoon	Alternating on Bi-weekly basis
Beausejour	Every Four Weeks	Wednesdays	Morning & Afternoon	Steinbach - Beausejour
The Pas	Approx. Every Six - Eight Weeks	Variable Days	Morning & Afternoon	Hearings on successive days
Thompson	Approx. Every Six - Eight Weeks	Variable Days	Morning & Afternoon	Hearings on successive days

Manitoba

Highways and Transportation

LICENCE APPLICATION AND DISPOSITION

TABLES MR1, THROUGH MR3

TABLE MR1

CARDIOLOGY APPLICATIONS - 1984
CLASS OF LICENCE APPLIED FOR AND DISPOSITION

AGE	- DISPOSITION	CLASS 1		CLASS 2		CLASS 3		CLASS 4		CLASS 5		TOTALS
		MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	
16 - 19												
	Granted											0
	Restricted											0
	Denied											0
20 - 24												
	Granted											0
	Restricted	2						1				3
	Denied											0
25 - 34												
	Granted	1										1
	Restricted	2				1		2	1			6
	Denied											0
35 - 44												
	Granted	3		2				2				7
	Restricted	1										1
	Denied											0
45 - 54												
	Granted	1		1		2		1		1		6
	Restricted	5		1				1				7
	Denied											0

MR1

AGE	- DISPOSITION	CLASS 1		CLASS 2		CLASS 3		CLASS 4		CLASS 5		TOTALS
		MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	
55 - 64												
	Granted	2				2		2				6
	Restricted	2				2		4				8
	Denied			1								1
65 - 74												
	Granted											0
	Restricted	1				1		1				3
	Denied							1				1
75 & UP												
	Granted											0
	Restricted											0
	Denied											0
CANCELLED OR PENDING	8											8
TOTALS	8	20		5		8		15	1	1		58

OPHTHALMOLOGY APPLICATIONS - 1984
CLASS OF LICENCE APPLIED FOR AND DISPOSITION

AGE	DISPOSITION	CLASS 1		CLASS 2		CLASS 3		CLASS 4		CLASS 5		TOTALS
		MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	
16 - 19												
	Granted									1		1
	Restricted	3								2		5
	Denied											0
20 - 24												
	Granted									1		1
	Restricted	2								1		3
	Denied											0
25 - 34												
	Granted							1		1		2
	Restricted	1				4		2		3		10
	Denied									1		1
35 - 44												
	Granted	1										1
	Restricted	3								1		4
	Denied											0
45 - 54												
	Granted								1			1
	Restricted	1				1			1			3
	Denied			1								1

AGE -	DISPOSITION	CLASS 1		CLASS 2		CLASS 3		CLASS 4		CLASS 5		TOTALS
		MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	
55 - 64												
	Granted	2										2
	Restricted											0
	Denied											0
65 - 74												
	Granted											0
	Restricted											5
	Denied									5		0
75 & UP												
	Granted											1
	Restricted										1	3
	Denied									3		0
CANCELLED OR PENDING	12											12
TOTALS	12	13		1		5		3	2	19	1	56

TABLE MR3

NEUROLOGY APPLICATIONS - 1984
CLASS OF LICENCE APPLIED FOR AND DISPOSITION

AGE	DISPOSITION	CLASS 1		CLASS 2		CLASS 3		CLASS 4		CLASS 5		TOTALS
		MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	
16 - 19												
	Granted									1	2	3
	Restricted									1		1
	Denied											0
20 - 24												
	Granted					1		1		7	3	12
	Restricted									1		1
	Denied									1		1
25 - 34												
	Granted	1			1			2		9	6	19
	Restricted											0
	Denied											0
35 - 44												
	Granted	2								2	2	6
	Restricted									1		1
	Denied											0
45 - 54												
	Granted	1		1		1				2		5
	Restricted							1		1		2
	Denied							1			1	2

MR3

AGE -	DISPOSITION	CLASS 1		CLASS 2		CLASS 3		CLASS 4		CLASS 5		TOTALS
		MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	
55 - 64												
	Granted	1				1				5		7
	Restricted					1		1				2
	Denied									1		1
65 - 74												
	Granted									1		1
	Restricted									1		1
	Denied										1	1
75 & UP												
	Granted									1		1
	Restricted											0
	Denied											0
CANCELLED OR PENDING	7											7
TOTALS	7	5		1	1	4		6		35	15	74